

ANNUAL UPDATE & INVENTORY REPORT/CAPITAL IMPROVEMENT ELEMENT SCHEDULE UPDATE ON PUBLIC FACILITIES

2019 AUIR/CIE



Collier County B.C.C.

District 1 — Donna Fiala

District 2 — Andy Solis

District 3 — Burt L. Saunders,

Vice Chairman

District 4 — Penny Taylor

District 5 — William L. McDaniel, Jr.,

Chairman

COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS

NOVEMBER 12, 2019

Prepared by:

**Comprehensive Planning Section
Zoning Division
Growth Management Department
2800 N. Horseshoe Drive**

EXECUTIVE SUMMARY

Recommendation to review and approve the 2019 combined Annual Update and Inventory Report on Public Facilities and Schedule of Capital Improvements as provided for in Section 6.02.02 of the Collier County Land Development Code and Section 163.3177(3)(b), Florida Statutes and adopt a Resolution that updates the 5-Year Capital Improvement Schedules. (PL20190000983/CPSP-2019-1)

OBJECTIVE: For the Board of County Commissioners (Board) to review, accept and approve (adopt) the combined 2019 Annual Update and Inventory Report (AUIR)/Capital Improvement Element (CIE) on public facilities and the corresponding specific projects and associated funding sources for inclusion in the Schedule of Capital Improvements within the CIE during the FY19/20 annual update (only Category “A” public facilities are included in the CIE).

At a glance, the 2019 Update and Inventory reveals the following high-lights:

The “Infrastructure Surtax” (Local Infrastructure Sales Tax) was approved on November 6, 2018 by voters. This surtax will raise an estimated \$420M for the County over seven years. On June 25, 2019 the BCC approved a contract for design of the Forensic Science Facility at the Resource Recovery Business Park (RRBP) location (northwest of the landfill). This tax allocates \$33M to this project over the seven-year life of the tax. Monies raised from this tax are also being allocated to other infrastructure projects, as identified with an (***) in the summarization below.

Projects from the previous AUIR continuing as scheduled

- Immokalee High School Additions ('21)
- New North Naples High School ('23)
- Ave Maria Public Safety & Government Services Center ('24)***actual schedule undetermined.*
- Heritage Bay County Government Services Center – Phase 1 ('21)

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- *Roads & Bridges – Pine Ridge Road Corridor Improvements [primarily continuous flow intersection at Livingston Road]; design ('19); build ('22/'26); \$23M from surtax, \$8M from gas tax*

Projects new to AUIR since last year

- EMS stations (funding for): Desoto Blvd. Station ('19); Medic Station 49 at Immokalee Rd./CR 951 ('21); Medic Station 411 on Old US 41 ('23) ***
- Law Enforcement – CCSO Firearms Training Range (TBD)
- Correctional Facilities – Mental Health Step-down Facility (TBD) ***
- *(tentatively) Corrections – Immokalee Jail Addition*

As with past AUIR, this year’s AUIR presents additional information related to individual Division/Department operational data. This additional data is provided to evaluate the year-to-year change in demand experienced by each AUIR component and to assist the BCC in making determinations upon the appropriateness of the County’s current Level of Service (LOS) Standards and timing/necessity of proposed projects. The AUIR constitutes the process of evaluating budgetary priorities, as well as determining appropriateness of the County’s currently adopted LOS Standards.

BACKGROUND: Chapter 163, Part II, Florida Statutes, requires the County to adopt certain Land Development Regulations (LDR) to implement its Growth Management Plan, adopted on January 10, 1989. This is commonly known as the concurrency requirement. Land Development Code (LDC) Section 6.02.00 requires the County to, “Provide that public facilities and services meet or exceed the standards established in the CIE required by Section 163.3177 and are available when needed for the development...” . Accordingly, on March 21, 1990, the Board adopted the Collier County Adequate Public Facilities Ordinance No. 90-24. This Ordinance was subsequently codified in LDC Section 6.02.02.

Statutory changes initiated by HB7207 in 2011 [which is now Chapter 2011-139, Laws of Florida] only require from each local government that they maintain concurrency management for its Stormwater Management System, Potable Water System, Wastewater Treatment Systems and Solid Waste Disposal services and facilities. During the 2011 AUIR/CIE process, the County decided to maintain concurrency for the optional facilities of Schools, Arterial and Collector Roads and Bridges, and Parks and Recreation facilities, based upon the perspective that maintaining concurrency management for the optional facilities is necessary to sustain the currently identified levels of service for the respective facilities and to ensure that the demands of new development are provided for by system expansion corresponding to those demands.

As noted, LDC Section 6.02.02 establishes the management and monitoring program for public facilities, which provides for an annual determination of LOS Standard concurrency for “Category A” public facilities and identification of need for additional facilities. As previously noted, “Category A” facilities are: arterial and collector roads, drainage system and stormwater management, potable water supply and distribution, wastewater treatment systems, solid waste disposal, public schools, and parks. The AUIR also provides analysis and recommendations on “Category B” facilities for which the County has adopted LOS Standards and collects impact fees. “Category B” facilities are: jail and correctional facilities, law enforcement, library buildings and collections, emergency medical services, and government buildings. Adoption of LOS Standards for “Category B” facilities legally validate impact fees for these facilities.

Coastal Zone beach re-nourishment and inlet management projects were added to the AUIR as a new “Category C” [County Manager direction: 2018]. This addition allows the Board to formally and predictably evaluate the condition of each project for their respective capital programming. “Category C” areas (coastal zone beaches and inlets) are not subject to concurrency management or coupled to impact fee funding. The quality and usability of these features are sustained through periodic surveys, and maintenance and management programs, funded with tourist development taxes and other revenue sources.

Where the AUIR identifies deficiencies or potential deficiencies, the Board’s action options, per LDC Section 6.02.02, include, but are not limited to:

1. Establishing Areas of Significant Influence (ASI) surrounding deficient road segments *which are not in a Transportation Concurrency Management Area (TCMA) or Transportation Concurrency Exception Area (TCEA).*
2. Adding public facility projects to the financially feasible Schedule of Capital Improvements in the CIE. *Road projects must be in the first or second year of the next adopted Schedule to be factored as available capacity in the real-time Transportation Concurrency Management System database.*
3. Deferring development order issuance for development not vested by statute in service areas affected by deficient public facilities. *This applies to necessary improvements both pending and not financially feasible, or not in the five-year Schedule of Capital Improvements, and could result in the following remedial actions:*
 - a. *Modifying levels of service via Growth Management Plan amendment;*
 - b. *Directing staff to include the necessary public facility projects in a future annual CIE update and amendment to be adopted by the Board;*
 - c. *Approving new or increased revenue sources for needed public facility projects, by the Board, the State Legislature or the County voters; or*
 - d. *Allowing developer constructed improvements guaranteed by an enforceable development agreement.*

The options identified above are crafted under the design of maintaining a fiscally feasible CIE based on the concurrency management system. The requirement for financial feasibility is a local requirement, no longer a statutory requirement. The Board, through Objective 2 of the CIE, provides direction to maintain an annual financially feasible Schedule of Capital Improvements.

CIE ~ OBJECTIVE 2: (FINANCIAL FEASIBILITY)

Provide public facilities, as described in Policy 1.1 above, to maintain adopted level of service standards that are within the ability of the County to fund...

Policies 1.1 through 1.5 of the CIE establish the standards for levels of service for “Category A” public facilities.

GROWTH MANAGEMENT IMPACT: Preparation and presentation of the AUIR to the CCPC and Board meets the requirements of LDC Section 6.02.02 for an annual determination of the status of public facilities. Board direction to include the projects identified in the AUIR in a financially feasible Schedule of Capital Improvements will establish and maintain concurrency for “Category A” public facilities, except roads, for the next twelve months. Road projects needed to maintain or restore adopted levels of service deficiencies must be scheduled in the first or second year of the Schedule of Capital Improvements.

The CIE Schedule of Capital Improvements requires only a single public hearing before the Collier County Planning Commission (sitting in its official role as the County’s land planning agency) and a single public hearing before the governing board (Board) as an adoption hearing. This single hearing process allows for concurrent hearings of the AUIR and CIE. When adopted, both the AUIR and CIE processes are complete, as the updated CIE is not required to be sent to the State Land Planning agency.

Level of Service Appropriateness: As indicated within the Objective section above, the AUIR provides the BCC with a platform to make evaluations and determinations regarding the appropriateness of the County’s current Levels of Service Standards. The process of capital improvement programming for the County is a linear equation for most components of the AUIR; (New Population x Level of Service Standard = Capital Improvement). This equation is the only justification required of the proposed capital improvement. While Public Utilities, Stormwater Management and Transportation have developed a more complex formula and system for maintaining Level of Service Standards which dictates capital expansion, the basic premise of additional demand requiring new improvements remains the underlying fundamental of the equation.

The AUIR provides an opportunity on an annual basis for the BCC to evaluate and provide determinations on the appropriateness of currently adopted Level of Service Standards. Within each individual section, the year-to-year demand for service or demands upon the system are included to assist the advisory boards and the Board in this determination.

Level of Service Standards and Impact Fees: Impact fee studies and methodologies in and of themselves do not establish Level of Service Standards. They serve, at a minimum, to establish a base line where levels of service cannot fall below without invalidating the impact fee. A level of service that is established by an impact fee study represents the standard that has been achieved for a facility, but does not dictate that a local government cannot adopt a Level of Service Standard that is higher than the achieved level of service. However, the difference between the achieved level of service and the adopted Level of Service Standard requires supplemental funding from a source other than impact fees to fund the cost of the improvement. EMS is an AUIR component in which the impact fee level of service is below the AUIR adopted Level of Service Standards. As indicated, this discrepancy is resulting in a higher level of necessary supplemental general governmental funding, which is being allocated from monies raised by the Local Infrastructure Sales Tax.

The established Level of Service Standards for most AUIR components are currently satisfied based upon the levels of service and current population levels. But population growth and other factors (e.g. access to new technology, in the example of Library materials; approval of development projects where public facility improvements do not appear in the AUIR or CIE, but must be introduced or expanded in accommodation, in the example of Growth Management) continue to reduce the available capacity of the respective infrastructure and service providers. Based upon this diminishing capacity, the due diligence process to bring about the next generation of system expansion has begun and will require continued revenue growth needed to maintain the Level of Service Standards for the system providers.

Population: The population projections utilized with the 2019 AUIR are based upon prior Board policy direction and acceptance from the State of Florida Department of Economic Opportunity (DEO). The population method utilizes the Bureau of Economic and Business Research (BEBR) *medium-range* projections for the entire projection period. The table below represents a comparison of past years of *projected Permanent population* BEBR-based growth figures.

AUIR Year	BEBR Estimate*	Permanent Population Following 5-Year BEBR Growth Projections					5 Year Growth Percent	Growth Percent Annualized
2014	341,914	348,373	354,982	361,717	368,579	375,571	9.84%	1.97%
2015	346,371	352,771	359,289	365,927	372,688	379,084	9.44%	1.89%
2016	353,936	360,846	367,892	375,074	381,722	387,814	9.57%	1.91%
2017	360,825	368,073	375,467	382,465	389,053	395,753	9.68%	1.93%
2018	368,534	376,086	383,166	389,754	394,004	400,292		
2019	374,994	382,800	389,669	396,661	403,779	411,024	9.60%	1.92%

* BEBR Estimates appear only as projections at the time AUIRs are under preparation. They do not become actual estimates until later each year, and are reported in Appendix I. The actual BEBR Estimates for prior years are as follows:
2014: 336,783, 2015: 343,802, 2016: 350,202, 2017: 357,470 and 2018: 367,347.

The table above illustrates 2019 as another successive year in which the annualized growth rate is projected at under two percent of the total population. This outlook reinforces the contemporary growth reality of a steadily growing population for the County.

The projected population increase totals 36,030 for the five-year period or, 7,206 people per year. Utilizing the County's 2.38 persons per household (PPH) rate (per the 2010 Census), these projected 7,206 new people per year, translate to an average of 3,028 new dwelling units constructed each year (presuming new population is housed only by new units and not existing inventory).

The population method next adjusts (April 01) BEBR-based figures to October 01 figures for Capital Improvement planning within County fiscal years, and appear as our *Permanent* population projections. The method then applies a twenty percent (20%) seasonal adjustment factor to October 01 *Permanent* population projections to give us our *Peak* population projections.

For optimum accuracy in facilities' planning, *Permanent* population projections are applied to certain facilities' needs, while the seasonally adjusted *Peak* population projections are applied to others. These different population figures, and how they are used, are shown in the table below.

POPULATIONS USED	2020	2021	2022	2023	2024
Permanent (October 01)					
Unincorporated Area	347,394	353,886	360,503	367,247	374,119
Everglades City	416	419	422	425	428
Marco Island	17,239	17,338	17,436	17,534	17,633
Naples	21,186	21,522	21,859	22,196	22,532
Countywide total	386,234	393,165	400,220	407,402	414,712
<u>Special Service Areas</u>					
<i>Regional Water Service</i>	<i>231,093</i>	<i>235,312</i>	<i>239,611</i>	<i>243,993</i>	<i>248,458</i>
<i>North Water Reclamation</i>	<i>126,066</i>	<i>128,186</i>	<i>130,347</i>	<i>132,549</i>	<i>134,894</i>
<i>South Water Reclamation</i>	<i>107,585</i>	<i>109,622</i>	<i>111,718</i>	<i>113,854</i>	<i>116,031</i>
<i>Northeast Water Reclamation</i>	<i>—</i>	<i>351</i>	<i>1,028</i>	<i>1,699</i>	<i>2,375</i>
<i>Orangetree</i>	<i>5,565</i>	<i>5,785</i>	<i>6,009</i>	<i>6,237</i>	<i>6,470</i>

Peak (Seasonal)					
Unincorporated Area	416,873	424,664	432,604	440,696	448,943
Countywide total	463,481	471,798	480,264	488,882	497,655

Permanent population projections are utilized by: Potable Water System (*County Water-Sewer District*), and Wastewater Collection & Treatment Systems (*County Water-Sewer District*).

Peak population projections are utilized by: Government Buildings & Facilities, Emergency Medical Services (EMS) Facilities, Library Collections, Library Buildings, Jail & Correctional Facilities, Regional Parks and Recreation Facilities, Solid Waste Disposal Facilities (*Countywide*); Law Enforcement Facilities (*unincorporated area & Everglades City*); and, Community Parks and Recreation Facilities (*unincorporated area*).

Those facilities that do not utilize population projections (per capita) for their Levels of Service (LOS) are:

- Arterial & Collector Roads & Bridge Facilities, base their LOS on peak hour traffic volume,
- Stormwater Management System – Canals & Structures, base their LOS on water quantity and quality standards & by design storm return frequency event, and
- Coastal Zone Areas Management – Beaches & Inlets, base their LOS on standards established for sustainability.

The recalibration of Collier County’s population through the 2010 Census had provided additional capacity to each of the AUIR/CIE population-based systems; but, the population added since continues to consume this capacity. As such, each of the AUIR providers continue the due diligence process for their next system expansion.

The following table provides Certificate of Occupancy (CO) figures issued per year since 2010.

Compilation Year *	Single Family COs	Multi-Family COs	Single & Multi Family
2011-2012	747	480	1,227
2012-2013	806	454	1,260
2013-2014	1,436	286	1,722
2014-2015	2,065	1,010	3,075
2015-2016	2,548	777	3,325
2016-2017	2,776	980	3,756
2017-2018	2,424	442	2,866
2018-2019	2,652	1,156	3,808

**Based upon April 2018 through March 2019 CO data, compiled annually by the Growth Management Department.*

Approximately 2,652 single-family dwellings and 1,156 multi-family units were constructed (and *certified for occupancy*, in this compilation year *) – for a total of 3,808 units. These figures represent an increase over the previous year’s residential construction, when 2,424 single-family dwellings and 442 multi-family units – for a total of 2866 units, were constructed. These figures are provided to better evaluate the market’s response to fluctuations in demand for new housing units.

In addition, the Board directed that population projections for Golden Gate City be prepared beginning with fiscal year 2017/18. ** This direction is based on the County to serve all portions of the Florida Governmental Utility Authority (FGUA) franchise utility service area east of Santa Barbara Blvd. within the 10-year AUIR planning window. The future service area is approximately four square miles in size, and can be more specifically described as all of Sections 21, 22, 23, and 28 and portions of Sections 15 and 16 in Township 49 S, Range 26 E, as bounded on the north by Green Blvd., on the east by Collier Blvd., on the south by Golden Gate Canal, and on the west by Santa Barbara Blvd. The population figures for this area – along with

information regarding treatment capacity, acquisition and implementation planning are included herein. These are provided under the Level of Service Standards (LOSS) Assessments, and illustrated in the LOSS charts, within the Potable Water System and Wastewater Treatment Systems' reports in the AUIR/CIE booklet.

*** Adopted by Resolution 2017-123, on June 27, 2017.*

Schools: The Schools section of the AUIR stands as a unique component. A summary of the School District Five-Year Capital Improvement Plan is provided for review by the BCC. But when the AUIR is reviewed, the School District's Capital Improvement Program (CIP) will already have been approved by the School Board, as required by the Florida Department of Education. The proposed School CIP has been reviewed by County staff in conjunction with School District staff to ensure no inconsistencies exist with the timing of new facilities and required infrastructure. The District's five-year CIP includes completing the Immokalee High School addition/renovations project ('21) and planning, engineering and construction for opening the new High School on Veteran's Memorial Boulevard, west of Livingston Road in North Naples ('23).

While the Schools component is included as part of the "Category A" facilities which dictate the concurrency management system for the County, concurrency management for schools is administered by the School District.

Requirements changed for referencing School District documents when the County amended the CIE in 2017. Each year since, the County adopts into its CIE, by reference, the School District's annually updated financially feasible Five-Year Capital Improvement Plan and the District Facilities Work Program to achieve and maintain the adopted level of service standards for Public School Facilities. The School District Five-Year Capital Improvement Plan identifies the financially feasible school facility capacity projects necessary to address existing deficiencies and future needs based on achieving and maintaining adopted LOS standards for schools. The District Facilities Work Program, prepared by the School District pursuant to Section 1013.35(1)(b), F.S., is adopted as part of the data and analysis in support of the School District's Five-Year Capital Improvement Plan. The County's adoption of the School District's Capital Improvement Plan and the District Facilities Work Program now occurs, without requiring separate action, with approval of the annual update to the Schedule of Capital Improvements.

The determination sought from the BCC related to the School District's proposed Capital Improvement Plan is to find that no inconsistencies are contained within the District's Capital Improvement Plan compared to the other planned capital improvement projects within the County's AUIR or CIE.

FISCAL IMPACT: Revenues are required to fund the Capital Improvement projects proposed in the 2019 AUIR/CIE for the FY19/20 thru FY23/24 planning period to maintain financial feasibility of scheduled "Category A" facility improvements. These funds must be made available by the Board of County Commissioners or fall within the Board's statutory general governmental taxing authority. Current and proposed revenues needed to fund public facility construction/expansion for the FY19/20 thru FY23/24 planning period are set forth in each respective capital facilities section of the 2019 AUIR/CIE update. Project expenditures more than estimated impact fee, gas tax, and user fee revenue receipts and funded bonds are reflected as being augmented by general governmental sources in the body of the AUIR document. General governmental sources are those existing sales tax revenues and other state shared revenues, or ad valorem allocations at the Board's discretion. Note that all projects identified within the "Category A" facilities have identified funding for the improvement. When funding sources are not identified, CIE Policy 2.9 provides the Board five action options to address the situation by.

1. Removing facility improvements or new facilities that exceed the adopted level of service for the growth during the next five (5) fiscal years from the adopted Schedule of Capital Improvements via Growth Management Plan amendment;
2. Removing facility improvements or new facilities that reduce the operating cost of providing a service or facility but do not provide additional facility capacity from the adopted Schedule of Capital Improvements via Growth Management Plan amendment;
3. Transferring funds, where feasible, from a funded non-CIE capital project to fund an identified deficient CIE public facility, and reflecting the resulting revisions in the annual CIE update;

4. Lowering the adopted level of service standard via Growth Management Plan amendment for the facility for which funding cannot be obtained; and,
5. Not issuing development orders that would continue to cause a deficiency based on the facility's adopted level of service standard.

All of “Category B” facility improvements require loans from general governmental sources to meet the necessary revenue (option 3 above). Additionally, to fund the proposed five-year improvements contained within this year’s CIE update requires the Board to utilize Debt Service. The informational tables detailing the revenue and debt service for the AUIR Divisions/Departments for the five-year capital improvement planning period, as well as the long-term debt financing schedules, are provided within Appendix I of the AUIR/CIE booklet.

LEGAL CONSIDERATIONS: *Section 163.3177(3)(b), Florida Statutes*, provides “The capital improvements element must be reviewed by the local government on an annual basis. Modifications to update the 5-year capital improvement schedule may be accomplished by ordinance and may not be deemed to be amendments to the local comprehensive plan.”. This item is approved as to form and legality. Since the modification of the capital improvement schedule is not a Growth Management Plan amendment, the Board may adopt the CIE by resolution and a simple majority vote of the Board is needed for adoption. [HFAC]

COLLIER COUNTY PLANNING COMMISSION (CCPC) RECOMMENDATION: The CCPC heard this petition at their October 21, 2019 meeting. The CCPC provided the Board recommendations by unanimous approvals to:

1. To accept and recommend approval of the attached document as the 2019 Annual Update and Inventory Report on Public Facilities.
2. To accept and recommend approval to the BCC the “Category A, B and C” facilities relative to projects and revenue sources, with “Category A” facilities set forth for inclusion in the Schedule of Capital Improvements of the annual CIE update and amendment.
3. To find that no inconsistencies are contained within the School District’s Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE.
4. To consider alternative levels of service for individual components of the AUIR, where deemed appropriate.
5. To recommend adoption of the CIE Schedule of Capital Improvements update, and by reference, the School District’s Capital Improvement Plan and the District Facilities Work Program.

STAFF RECOMMENDATION TO THE BOARD OF COUNTY COMMISSIONERS: That the Board of County Commissioners accept and approve the 2019 Annual Update and Inventory Report on Public Facilities and CIE Schedule of Capital Improvements update as recommended by the CCPC, and adopt the CIE Schedule of Capital Improvements update by Resolution.

Prepared by: Corby Schmidt, AICP, Principal Planner, Zoning Division, Growth Management Department

* *It should be noted that due to the importance of viewing color maps and figures found in the AUIR/CIE adoption notebook, the full notebook is being provided as an upload into the ACCELA (Minute Traq) viewing system.*

Staff Report

Presentation to the Collier County Planning Commission of the 2019 combined Annual Update and Inventory Report on Public Facilities and Schedule of Capital Improvements as provided for in Chapter 6.02.02 of the Collier County Land Development Code and Section 163.3177(3)(b), Florida Statutes

OBJECTIVE: That the Collier County Planning Commission (CCPC) review the combined 2019 Annual Update and Inventory Report (AUIR)/Capital Improvement Element (CIE) on public facilities and provide recommendations to the Collier County Board of County Commissioners (Board) on specific projects and associated funding sources for inclusion in the Schedule of Capital Improvements within the CIE during the FY19/20 annual update (only "Category A" public facilities are included in the CIE - arterial and collector roads, drainage system and stormwater management, potable water supply and distribution, wastewater treatment systems, solid waste disposal, public schools, and parks). The AUIR identifies capital needs for new facilities to serve population growth projected for the five-year AUIR period.

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Policies 1.1 through 1.5 of the CIE establish the standards for levels of service for "Category A" public facilities.

GROWTH MANAGEMENT IMPACT: Preparation and presentation of the AUIR to the CCPC and Board meets the requirements of LDC Section 6.02.02 for an annual determination of the status of public facilities. Board direction to include the projects identified in the AUIR in a financially feasible Schedule of Capital Improvements will establish and maintain concurrency for "Category A" public facilities, except roads, for the next twelve months. Road projects needed to maintain or restore adopted levels of service deficiencies must be scheduled in the first or second year of the Schedule of Capital Improvements.

The CIE Schedule of Capital Improvements requires only a single public hearing before the Collier County Planning Commission (sitting in its official role as the County's land planning agency) and a single public hearing before the governing board (Board) as an adoption hearing. This single hearing process allows for concurrent hearings of the AUIR and CIE. When adopted, both the AUIR and CIE processes are complete, as the updated CIE is not required to be sent to the State Land Planning agency.

Level of Service Appropriateness: As indicated within the Objective section above, the AUIR provides the CCPC with a platform to make evaluations and recommendations regarding the appropriateness of the County's current Levels of Service Standards. The process of capital improvement programming for the County is a linear equation for most components of the AUIR; (New Population x Level of Service Standard = Capital Improvement). This equation is the only justification required of the proposed capital improvement. While Public Utilities, Stormwater Management and Transportation have developed a more complex formula and system for maintaining Level of Service Standards which dictates capital expansion, the basic premise of additional demand requiring new improvements remains the underlying fundamental of the equation.

The AUIR provides an opportunity on an annual basis for the CCPC to evaluate and provide recommendations on the appropriateness of currently adopted Level of Service Standards. Within each individual section, the year-to-year demand for service or demands upon the system are included to assist the advisory boards and the Board in this determination.

Level of Service Standards and Impact Fees: Impact fee studies and methodologies in and of themselves do not establish Level of Service Standards. They serve, at a minimum, to establish a base line where levels of service cannot fall below without invalidating the impact fee. A level of service that is established by an impact fee study represents the standard that has been achieved for a facility, but does not dictate that a local government cannot adopt a Level of Service Standard that is higher than the achieved level of service. However, the difference between the achieved level of service and the adopted Level of Service Standard requires supplemental funding from a source other than impact fees to fund the cost of the improvement. EMS is an AUIR component in which the impact fee level of service is below the AUIR adopted Level of Service Standards. As indicated, this discrepancy is resulting in a higher level of necessary supplemental general governmental funding, which is being allocated from monies raised by the Local Infrastructure Sales Tax.

The established Level of Service Standards for most AUIR components are currently satisfied based upon the levels of service and current population levels. But population growth and other factors (e.g. access to new technology, in the example of Library materials; approval of development projects where public facility improvements do not appear in the AUIR or CIE, but must be introduced or expanded in accommodation, in the example of Growth Management) continue to reduce the available capacity of the respective infrastructure and service providers. Based upon this diminishing capacity, the due diligence process to bring about the next generation of system expansion has begun and will require continued revenue growth needed to maintain the Level of Service Standards for the system providers.

Population: The population projections utilized with the 2019 AUIR are based upon prior Board policy direction and acceptance from the State of Florida Department of Economic Opportunity (DEO). The population method utilizes the Bureau of Economic and Business Research (BEBR) *medium-range* projections for the entire projection period. The table below represents a comparison of past years of *projected Permanent population* BEBR-based growth figures.

AUIR Year	BEBR Estimate*	Permanent Population Following 5-Year BEBR Growth Projections					5 Year Growth Percent	Growth Percent Annualized
2014	341,914	348,373	354,982	361,717	368,579	375,571	9.84%	1.97%
2015	346,371	352,771	359,289	365,927	372,688	379,084	9.44%	1.89%
2016	353,936	360,846	367,892	375,074	381,722	387,814	9.57%	1.91%
2017	360,825	368,073	375,467	382,465	389,053	395,753	9.68%	1.93%
2018	368,534	376,086	383,166	389,754	394,004	400,292		
2019	374,994	382,800	389,669	396,661	403,779	411,024	9.60%	1.92%

* BEBR Estimates appear only as projections at the time AUIRs are under preparation. They do not become actual estimates until later each year, and are reported in Appendix I. The actual BEBR Estimates for prior years are as follows:
2014: 336,783, 2015: 343,802, 2016: 350,202, 2017: 357,470 and 2018: 367,347.

The table above illustrates 2019 as another successive year in which the annualized growth rate is projected at under two percent of the total population. This outlook reinforces the contemporary growth reality of a steadily growing population for the County.

The projected population increase totals 36,030 for the five-year period or, 7,206 people per year. Utilizing the County's 2.38 persons per household (PPH) rate, these projected 7,206 new people per year, translate to an average of 3,028 new dwelling units constructed each year (presuming new population is housed only by new units and not existing inventory).

The population method next adjusts (April 01) BEBR-based figures to October 01 figures for Capital Improvement planning within County fiscal years, and appear as our *Permanent* population projections. The method then applies a twenty percent (20%) seasonal adjustment factor to October 01 *Permanent* population projections to give us our *Peak* population projections.

For optimum accuracy in facilities' planning, *Permanent* population projections are applied to certain facilities' needs, while the seasonally adjusted *Peak* population projections are applied to others. These different population figures, and how they are used, are shown in the table below.

POPULATIONS USED	2020	2021	2022	2023	2024
Permanent (October 01)					
Unincorporated Area	347,394	353,886	360,503	367,247	374,119
Everglades City	416	419	422	425	428
Marco Island	17,239	17,338	17,436	17,534	17,633
Naples	21,186	21,522	21,859	22,196	22,532
Countywide total	386,234	393,165	400,220	407,402	414,712
<u>Special Service Areas</u>					
<i>Regional Water Service</i>	231,093	235,312	239,611	243,993	248,458
<i>North Water Reclamation</i>	126,066	128,186	130,347	132,549	134,894
<i>South Water Reclamation</i>	107,585	109,622	111,718	113,854	116,031

<i>Northeast Water Reclamatn</i>	–	351	1,028	1,699	2,375
<i>Orangetree</i>	5,565	5,785	6,009	6,237	6,470
Peak (Seasonal)					
Unincorporated Area	416,873	424,664	432,604	440,696	448,943
Countywide total	463,481	471,798	480,264	488,882	497,655

Permanent population projections are utilized by: Potable Water System (*County Water-Sewer District*), and Wastewater Collection & Treatment Systems (*County Water-Sewer District*).

Peak population projections are utilized by: Government Buildings & Facilities, Emergency Medical Services (EMS) Facilities, Library Collections, Library Buildings, Jail & Correctional Facilities, Regional Parks and Recreation Facilities, Solid Waste Disposal Facilities (*Countywide*); Law Enforcement Facilities (*unincorporated area & Everglades City*); and, Community Parks and Recreation Facilities (*unincorporated area*).

Those facilities that do not utilize population projections (per capita) for their Levels of Service (LOS) are:

- Arterial & Collector Roads & Bridge Facilities, base their LOS on peak hour traffic volume,
- Stormwater Management System – Canals & Structures, base their LOS on water quantity and quality standards & by design storm return frequency event, and
- Coastal Zone Areas Management – Beaches & Inlets, base their LOS on standards established for sustainability.

The recalibration of Collier County's population through the 2010 Census had provided additional capacity to each of the AUIR/CIE population-based systems; but, the population added since continues to consume this capacity. As such, each of the AUIR providers continue the due diligence process for their next system expansion.

The following table provides Certificate of Occupancy (CO) figures issued per year since 2010.

Compilation Year *	Single Family COs	Multi-Family COs	Single & Multi Family
2011-2012	747	480	1,227
2012-2013	806	454	1,260
2013-2014	1,436	286	1,722
2014-2015	2,065	1,010	3,075
2015-2016	2,548	777	3,325
2016-2017	2,776	980	3,756
2017-2018	2,424	442	2,866
2018-2019	2,652	1,156	3,808

**Based upon April 2018 through March 2019 CO data, compiled annually by the Growth Management Department.*

Approximately 2,652 single-family dwellings and 1,156 multi-family units were constructed (and *certified for occupancy*, in this compilation year *) – for a total of 3,808 units. These figures represent an increase over the previous year's residential construction, when 2,424 single-family dwellings and 442 multi-family units – for a total of 2866 units, were constructed. These figures are provided to better evaluate the market's response to fluctuations in demand for new housing units.

In addition, the Board directed that population projections for Golden Gate City be prepared beginning with fiscal year 2017/18. ** This direction is based on the County to serve all portions of the Florida Governmental Utility Authority (FGUA) franchise utility service area east of Santa Barbara Blvd. within the 10-year AUIR planning window. The future service area is approximately four square miles in size, and can be more specifically described as all of Sections 21, 22, 23, and 28 and portions of Sections 15 and 16 in Township 49 S, Range 26 E, as bounded on the north by Green Blvd., on the east by Collier Blvd., on the south by Golden Gate Canal, and on the west by Santa Barbara Blvd. The population figures for this area – along with information regarding treatment capacity, acquisition and implementation planning are included herein. These are provided under the Level of Service Standards (LOSS) Assessments, and illustrated in the LOSS charts, within the Potable Water System and Wastewater Treatment Systems' reports in the AUIR/CIE booklet.

*** Adopted by Resolution 2017-123, on June 27, 2017.*

Schools: The Schools section of the AUIR stands as a unique component. A summary of the School District Five-Year Capital Improvement Plan is provided for review by the CCPC. But when the AUIR is reviewed, the School District's Capital Improvement Program (CIP) will already have been approved by the School Board, as required by the Florida Department of Education. The proposed School CIP has been reviewed by County staff in conjunction with School District staff to ensure no inconsistencies exist with the timing of new facilities and required infrastructure. The District's five-year CIP includes completing the Immokalee High School addition/renovations project ('21) and planning, engineering and construction for opening the new High School on Veteran's Memorial Boulevard, west of Livingston Road in North Naples ('23).

While the Schools component is included as part of the "Category A" facilities which dictate the concurrency management system for the County, concurrency management for schools is administered by the School District.

Requirements changed for referencing School District documents when the County amended the CIE in 2017. Each year since, the County adopts into its CIE, by reference, the School District's annually updated financially feasible Five-Year Capital Improvement Plan and the District Facilities Work Program to achieve and maintain the adopted level of service standards for Public School Facilities. The School District Five-Year Capital Improvement Plan identifies the financially feasible school facility capacity projects necessary to address existing deficiencies and future needs based on achieving and maintaining adopted LOS standards for schools. The District Facilities Work Program, prepared by the School District pursuant to Section 1013.35(1)(b), F.S., is adopted as part of the data and analysis in support of the School District's Five-Year Capital Improvement Plan. The County's adoption of the School District's Capital Improvement Plan and the District Facilities Work Program now occurs, without requiring separate action, with approval of the annual update to the Schedule of Capital Improvements.

The recommendation sought from the CCPC related to the School District's proposed Capital Improvement Plan is to find that no inconsistencies are contained within the District's Capital Improvement Plan compared to the other planned capital improvement projects within the County's AUIR or CIE.

FISCAL IMPACT: Revenues are required to fund the Capital Improvement projects proposed in the 2019 AUIR/CIE for the FY19/20 thru FY23/24 planning period to maintain financial feasibility of scheduled "Category A" facility improvements. These funds must be made available by the Board of County Commissioners or fall within the Board's statutory general governmental taxing authority. Current and proposed revenues needed to fund public facility construction/expansion for the FY19/20 thru FY23/24 planning period are set forth in each respective capital facilities section of the 2019 AUIR/CIE update. Project expenditures more than estimated impact fee, gas tax, and user fee revenue receipts and funded bonds are reflected as being augmented by general governmental sources in the body of the AUIR document. General governmental sources are those existing sales tax revenues and other state shared revenues, or ad valorem allocations at the Board's discretion. Note that all projects identified within the "Category A" facilities have identified funding for the improvement. When funding sources are not identified, CIE Policy 2.9 provides the Board five action options to address the situation by.

1. Removing facility improvements or new facilities that exceed the adopted level of service for the growth during the next five (5) fiscal years from the adopted Schedule of Capital Improvements via Growth Management Plan amendment;
2. Removing facility improvements or new facilities that reduce the operating cost of providing a service or facility but do not provide additional facility capacity from the adopted Schedule of Capital Improvements via Growth Management Plan amendment;
3. Transferring funds, where feasible, from a funded non-CIE capital project to fund an identified deficient CIE public facility, and reflecting the resulting revisions in the annual CIE update;
4. Lowering the adopted level of service standard via Growth Management Plan amendment for the facility for which funding cannot be obtained; and,
5. Not issuing development orders that would continue to cause a deficiency based on the facility's adopted level of service standard.

All of "Category B" facility improvements require loans from general governmental sources to meet the necessary revenue (option 3 above). Additionally, to fund the proposed five-year improvements contained within this year's CIE update requires the Board to utilize Debt Service. The informational tables detailing the revenue and debt service for the AUIR Divisions/Departments for the five-year capital improvement planning period, as well as the long-term debt financing schedules, are provided within Appendix I of the AUIR/CIE booklet.

LEGAL CONSIDERATIONS:

The Staff Report was reviewed by the County Attorney's office on September 23, 2019.

RECOMMENDATION: That the Collier County Planning Commission forward the following recommendations to the Board of County Commissioners:

1. To accept and recommend approval of the attached document as the 2019 Annual Update and Inventory Report on Public Facilities.
2. To accept and recommend approval to the BCC the "Category A, B and C" facilities relative to projects and revenue sources, with "Category A" facilities set forth for inclusion in the Schedule of Capital Improvements of the annual CIE update and amendment.
3. To find that no inconsistencies are contained within the School District's Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE.
4. To consider alternative levels of service for individual components of the AUIR, where deemed appropriate.
5. To recommend adoption of the CIE Schedule of Capital Improvements update, and by reference, the School District's Capital Improvement Plan and the District Facilities Work Program.

PREPARED BY:


CORBY SCHMIDT, AICP, PRINCIPAL PLANNER
COMPREHENSIVE PLANNING SECTION


DATE: 20 Sept 19

REVIEWED BY:


DAVID WEEKS, AICP, GROWTH MANAGEMENT MANAGER
COMPREHENSIVE PLANNING SECTION

DATE: 9-20-19

APPROVED BY:


JAMES FRENCH, DEPUTY DEPARTMENT HEAD
GROWTH MANAGEMENT DEPARTMENT

DATE: 9-26-19

PROJECT/PETITION NO.: PL20190000983/CPSP-2019-1
Staff Report for the October 03, 2019 CCPC Meeting.

NOTE: This petition has been scheduled for the December 10, 2019, BCC Meeting.

2019 AUIR CCPC Staff Report
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cs/9-20/18

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COUNTY ROADS & BRIDGE FACILITIES

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2019 AUIR FACILITY SUMMARY

Facility Type: County Arterial and Collector Roads (Category A)

Level of Service Standard: Variable - "D" or "E"

Unit Cost: Variable (Average = \$4,844,907/ lane mile) Per Current Approved Transportation Impact Fee

Recommended Work Program FY 20-24	\$541,373,000
Recommended Revenues FY20-24	\$541,373,000
Five-Year Surplus or (Deficit)	\$0

1. Existing Revenue Sources:

A. Current Revenues CIE FY 20-24

Sales Tax	\$183,692,000
Gas Taxes	\$119,000,000
Impact Fees / COA	\$77,000,000
General Fund 001/111	\$65,613,000
Grants/Reimbursements/DCAs/Interest	\$26,243,000
Unfunded Needs	\$32,268,000
SUB TOTAL	\$503,816,000
Carry Forward	\$47,576,000 *
Less 5% Required by Law	(\$10,019,000)
TOTAL	\$541,373,000

2. Supplemental Revenue Sources:

A. Alternative I

None Required

B. Alternative II

None Required

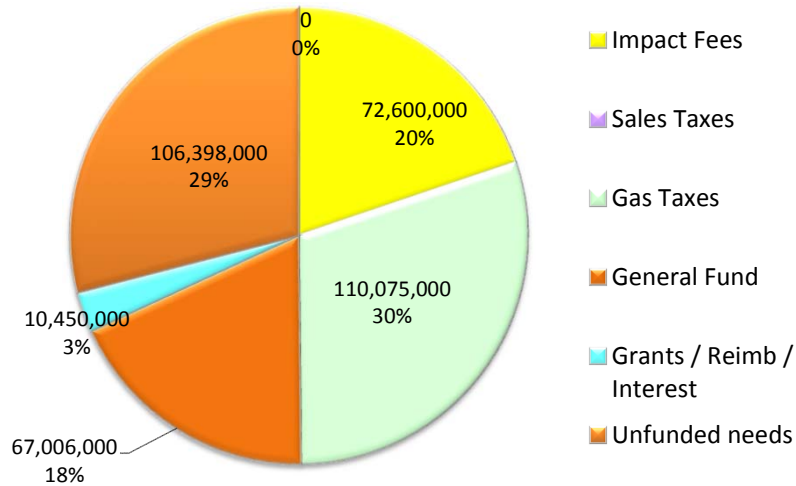
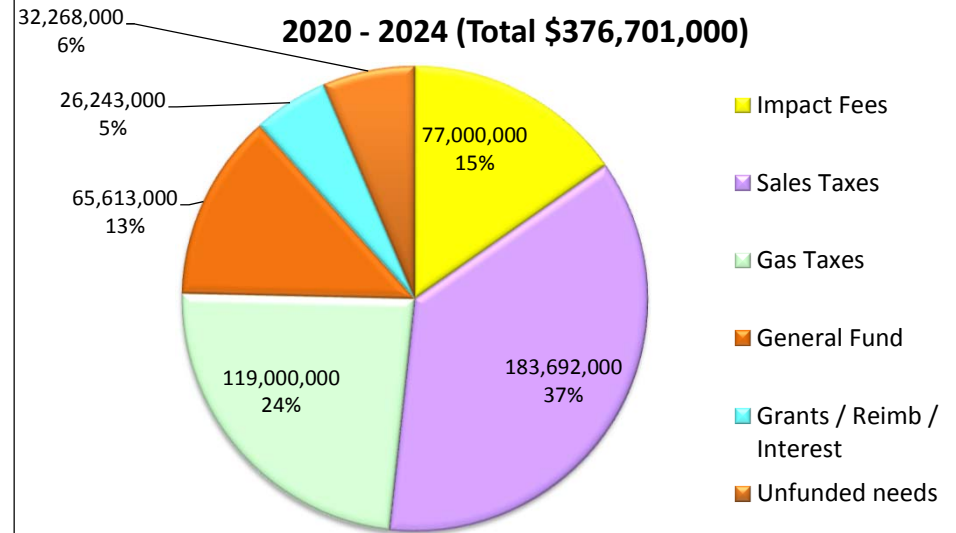
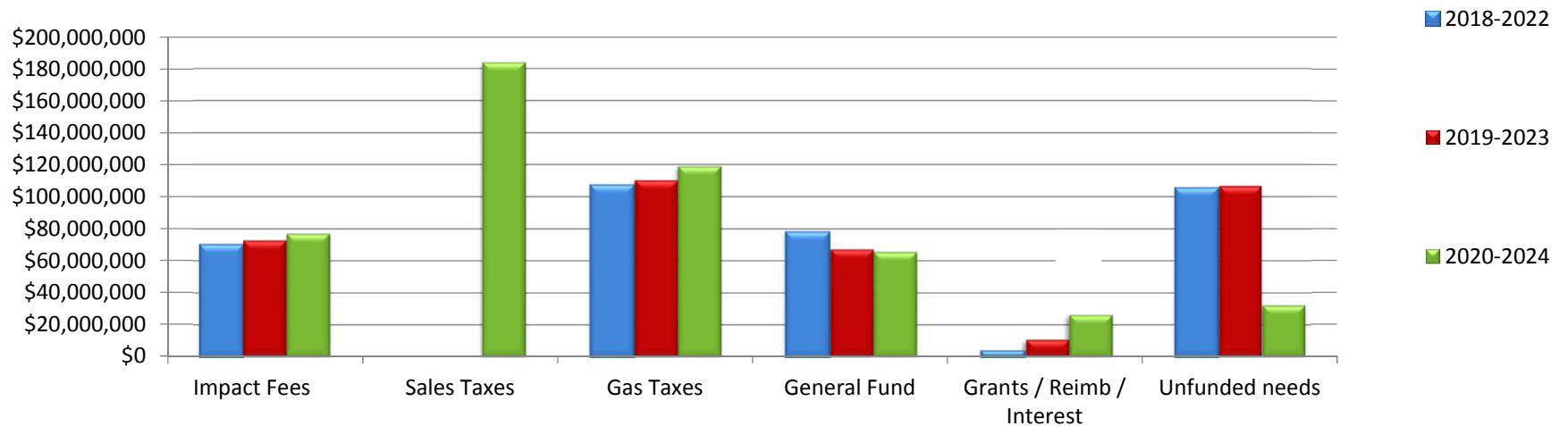
Recommended Action:

That the BCC direct the County Manager or his designee to include County road projects appearing on "Proposed Transportation Five-Year Work Program," (Attachment D), as detailed in the "Collier County Transportation Planning Database" (Attachment F), in the next Annual CIE Update and Amendment with the application of revenues outlined on the Road Financing Plan (Attachment E) to establish statutorily required financial feasibility of the CIE.

* Carry Forward includes the budgeted FY20 Carry forward and does not include project funding encumbered in prior fiscal years. The actual Carry Forward number that includes the roll of encumbrances is not available until after October 1, 2019. Attachment J provides a snapshot of prior year FY19 project activity as of June 30, 2019 for continuing projects. Project costs are generally paid out over the following schedule for phases (average time for payout):

		5 YEAR PROJECT DURATION AFTER 2 YEAR PLANNING CYCLE IS COMPLETE				
		1	2	3	4	5
1.	Design - 25 months	DESIGN				
2.	Right-of-Way - 4 years		RIGHT-OF-WAY			
3.	Construction - 30-36 months			CONSTRUCTION		

Note: FY 2019 Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements. Expenditures are based on current unit cost.

2019 - 2023 (Total \$363,665,000)**2020 - 2024 (Total \$376,701,000)****Funding Source Trends: Five Year Projections**

*Charts do not include a Carry Forward or negative Revenue Reserve of \$10,019,000.

Attachment “B”

TRANSPORTATION EXISTING CONDITIONS REPORT – 2019

Objective

To provide the Board of County Commissioners with an “existing conditions” analysis of the transportation system in Collier County.

Purpose

This analysis is provided to assist in the preparation of the Annual Update and Inventory Report (AUIR), and more specifically to assist in the determination of adequate (transportation) public facilities and to guide budgeting and project programming in the CIE.

Considerations:

- The traffic counts are collected on an annual, seasonal, or quarterly basis, and are factored as needed to determine a peak hour peak directional volume. The factors used include a directional factor and a seasonal factor that varies depending on the week that the traffic count was conducted.
- The Level of Service (LOS) threshold volumes are calculated using ARTPLAN and HIGHPLAN software. Measured volume is based on the 250th highest hour, which essentially equates to the 100th highest hour after omitting February and March data, consistent with the Growth Management Plan and Land Development Code provisions. The remaining capacity is based on the difference between the LOS threshold volume and the calculated existing plus trip bank volume.
- The LOS for each roadway segment is identified in Attachment “F” for the current year. Additionally, traffic volumes are forecasted for future years which yields an estimated “Year Expected Deficient” that is used in the planning and programming of future improvements. The Existing LOS and the forecasted LOS are expressions of operating conditions during the peak hours of the peak seasonal day, which corresponds to the same time period as the adopted minimum acceptable LOS Standards in the Growth Management Plan. While the adopted LOS standard and evaluated condition must be expressed for the peak period, it is important to recognize that the roadway’s LOS will be better during most other portions of the day, and especially during non-peak season periods.
- The AUIR deals with system capacity and maintaining the established LOS through our Concurrency Management System. As the system expands, there is a growing need to focus our attention on the condition of existing facilities and the demand for Operations and Maintenance (O&M) funding. Our bridges and culverts are approaching, or are at their 50-year life-cycle. Over 250 additional lane miles of urban and rural, arterial, and local roads have been added to the county system for maintenance since 2000. Historical funding for O&M has not addressed industry standards for anticipated life-cycles which are 6 to 8 years for urban roadways and 12 to 15 years for rural roadways. Gas taxes are already at the maximum allowed by statute. Complicating this issue is the reliance on impact fees as directed by our “growth pays for growth” policy which can only be used to add additional capacity or new lane miles to the system. The prior aggressive program to add capacity allowed existing system mileage to be rebuilt and the mileage to be maintained throughout the construction cycle by the contractor. Volatile impact fee rates and revenues alone cannot sustain a multi-year capital program that provides improvements concurrent with the impacts of development. Capacity expansion projects require a multi-year funding plan to meet the 7-year construction cycle that includes: planning, design, ROW acquisition, permitting and construction. LOS standards already set at the lowest acceptable levels of “D” or “E”.

Observations

Of the 129 stations (covering 141 unique Segment ID's) collecting traffic counts in the 2018/2019 program, the average increase in measured overall volume between 2018 and 2019 was 2.13% system-wide. By comparison, the average increase between 2017 and 2018 reported in last year's AUIR was 3.66%.

When reviewing only higher capacity, multi-lane roadway segments in the County's network (only those with capacity over 1,000 vehicles per hour in the peak direction during the peak period) an average increase of 1.37% was experienced over 2018.

For the 2018/2019 traffic counts, 28 segments reflected a decrease over the previous year, 44 segments reflected an increase over the previous year, and 69 remained unchanged (+/-5%). Listed below are the numbers and corresponding percentages for the count stations, including the percentage changes between 2018 and 2019:

- 3.5% (5 segments) show an increase greater than 20% compared to 2018
- 15.6% (22 segments) show an increase of 10-20% compared to 2018
- 12.1% (17 segments) show an increase of up to 5-10% compared to 2018
- 48.9% (69 segments) show an insignificant change of -5% to 5% compared to 2018
- 15.6% (22 segments) show a decrease of 5-10% compared to 2018
- 3.5% (5 segment) show a decrease of 10-20% compared to 2018
- 0.7% (1 segments) show a decrease of greater than 20% compared to 2018

Note: Some count stations experienced significant year-to-year fluctuations due to construction avoidance.

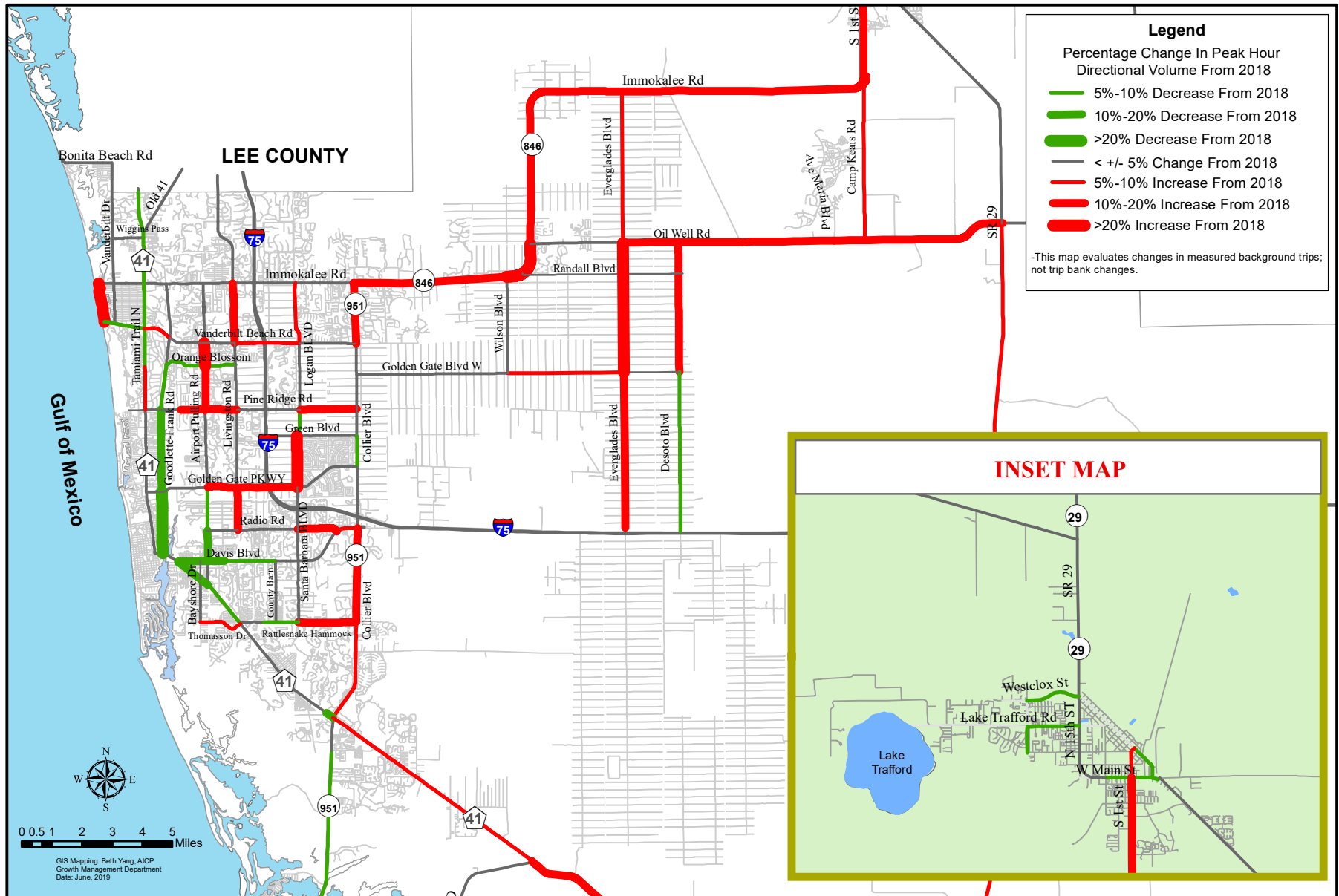
Although traffic data collected by Florida Department of Transportation (FDOT) on the segments of I-75 between each interchange is not needed for the AUIR, because the change in mainline volumes correlates with changes in interchange ramp volumes, the mainline volumes are monitored/evaluated each year for informational purposes. A review of the most recent average annual growth rates for the last 3 and 5-year timeframes depicts an increase in traffic along all mainline segments of I-75 in the urban area as shown in **Table 1**. A cumulative growth since 2010 is also shown.

TABLE 1: I-75 Historical Annual Average Daily (AADT) Traffic Volumes (2-Way)

		North of Immokalee Road	North of Pine Ridge Road	North of Golden Gate Pkwy	West of Collier Blvd	West of Everglades Blvd
	2018	99,582	89,362	76,500	41,500	24,970
	2017	97,387	82,348	79,000	43,500	24,968
	2016	97,041	80,453	72,500	39,500	24,597
	2015	92,399	76,809	70,000	40,500	23,127
	2014	85,506	70,332	64,000	36,500	21,320
	2013	79,834	65,423	58,000	34,500	20,221
	2012	75,022	62,897	55,000	31,000	19,444
	2011	74,500	61,224	55,000	31,500	19,204
	2010	75,500	59,784	55,000	32,500	19,484
	2009	77,000	58,578	32,500	34,000	19,114
Total % Increase	8-Year 2010-2018	31.9%	49.5%	39.1%	27.7%	28.2%
Avg Annual % Increase	8-Year 2010-2018	3.5%	5.2%	4.2%	3.1%	3.1%
Avg Annual % Increase	5-Year 2013-2018	4.5%	6.4%	5.7%	3.8%	4.3%
Avg Annual % Increase	3-Year 2015-2018	2.5%	5.2%	3.0%	0.8%	2.6%

Source: Florida Department of Transportation

ATTACHMENT C



Percentage Change In Peak Hour Directional Volume From 2019

Growth Management Department
Transportation Planning

Attachment D
2020 5 Year Work Program
(Dollars shown in Thousands)

Project #	Project Name	UPDATE TO SAP FY19 Amount		FY20 Amount		FY21 Amount		FY22 Amount		FY23 Amount		FY24 Amount		FY 20-24 Amount
SUMMARY OF PROJECTS														
60168	Vanderbilt Beach Rd/Collier Blvd-16th	27,154	R/M/D/A	15,000	R/A	75,000	C							90,000
60201	Pine Ridge Rd (Livingston to I75)	1,000								30,000	D/C/M			30,000
60066	11 Bridge Replacements			1,075	M	31,865	C							32,940
60147	Randall/Immokalee Road Intersection	221	D	950	D/R			8,800	C					9,750
60190	Airport Rd Vanderbilt Bch Rd to Immokalee Rd	64		3,000	D/R			14,500	C					17,500
60215	Triangle Blvd/Price St	200	R	6,000	R/C									6,000
60212	New Golden Gate Bridges (11)							15,476	D/C	6,120	D/C	18,000	D/C	39,596
60212.1	47th Ave NE					9,030	D/C					9,000	D/C	9,000
TBD	16th Street NE Bridge													9,030
60228	Sidewalks			1,627	D/C	1,311	D/C	1,997	D/C	2,530	D/C	2,535	D/C	10,000
60145	Golden Gate Blvd 20th St to Everglades	21,935	R/D/C											-
60211	Orange Blossom (Airport to Livingston)	200	S	-		-		-						-
60198	Veterans Memorial	400	R	3,600	R,D	8,800	C			-				12,400
60199	Vanderbilt Beach Rd (US41 to E of Goodlette)	800	D	500	D/R			8,900	C					9,400
60200	Goodland Road (CR 92A) Roadway Improvements	1,400	D/M	2,000	A	4,100	C							6,100
60219	Whippoorwill	300		4,000	D/C									4,000
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	3,487	S/C	7,000	C	1,000	R/A	1,000	R/A	1,000	R/A	1,000	R/A	11,000
65061	Ruston Pointe	140	C	150	C									150
60144	Oil Well (Everglades to Oil Well Grade)	5,832		608	A	300	A	300	A	300	A	300	A	1,808
33524	Tiger Grant	2,852		685										685
70167	Business Center (City Gate)					8,000	C							8,000
68057	Collier Blvd (Green to GG Main Canal)							3,200	D/A	7,000	R/A	4,900	A	15,100
60065	Randall Blvd/Immk to Oil Well	232										1,500	A	1,500
60232	Belle Meade			30										30
TBD	Goodlette Rd (VBR to Immokalee Rd)							2,000	R/A	5,500	D/R/M/A	6,750	A	14,250
TBD	Green Blvd (Santa Barbara Blvd to Sunshine)									500	S			500
60229	Wilson Blvd (GG Blvd to Immokalee)			2,000	A	10,000	D/A	10,000	C					22,000
TBD	Vanderbilt Bch Rd (16th to Everglades)							2,800	D/R/M	11,250	R/A	5,000	R/A	19,050
TBD	Massey St									845	D/R			845
TBD	Immokalee Rd (Livingston to Logan)							1,000	S/A					1,000
60016	Intersections Improvements Shoulder Widening	2,112		-		375		300		300		550		1,525
33524	Pine Ridge Rd Turning Ln	1,590												-
60148	Airport Rd-Davis Blvd Intersection	2,148	DC											-
60214	Immokalee/Woodcrest Imp	1,000	DC											-
60225	White Blvd (Collier to 23rd St S.W.) Shoulders	175	D											-
60226	16th Ave (13th St SW to 23rd St SW) Shoulders			150	D			1,350	C					1,500
60227	Corkscrew Rd (Lee County Line) Shoulders			1,200	C									1,200
60231	Oil Well Rd (Camp Keais Rd to SR 29) Shoulders			900	D/C									900
60230	Randall and 8th-8th St Bridge Opening Impacts	100	D	900	C									900
60213	St Andrews Safety	534	DC											-
60132	Immk/CR951 Broken Back Intersection	1,109	DC											-
60192	Lake Trafford @ 19th St	2	DC											-
TBD	Randall Blvd (Immk Rd to Desoto Blvd)Shoulder									100	DC	1,450	C	1,550
60233	Corkscrew Rd (Lee Cnty Line to SR82 Curve)	1,400	C											-
TBD	Randall Blvd at Everglades Blvd					625	DC	350	C					975
TBD	Immk Rd at Northbrooke Dr/Tarpon Bay Blvd					1,000	DC							1,000
TBD	Everglades Blvd (Oil Well to Immk Rd)Shoulder									1,600	DC			1,600
Several	LAPS	130												-
61001	Tree Farm/Woodcrest	1,034												-
60040	Golden Gate Blvd-Wilson to 20th	423												-
68056	Collier Blvd (GGB to Green)	339												-
50154	Hurricane IRMA	545												-
60208	Immokalee Rd Beautification	3												-
Contingency														-
Total		78,861		51,375		151,406		71,973		67,045		50,985		392,784
Operations Improvements/Programs														
66066	Bridge Repairs/Improvements	10,814		2,500		2,500		6,500		6,500		6,000		24,000
60130	Wall/Barrier Replacement	793		500		250		250		250		250		1,500
60131	Road Resurfacing 111/101	5,637		6,800		6,500		6,000		6,000		11,500		36,800
60128	Limerock Road Conversion 111	1,017		100										100
60077	Striping and Marking	985		800		800		800		800		950		4,150
60172	Traffic Ops Upgrades/Enhancements	2,029		400		700		700		700		700		3,200
60189	LED Replacement Program	1,110		350										350
60183	Sign Retroreflectivity Requirement	27												-
60118	Countywide Pathways/Sidewalks Non PIL /LAP	1,865		250		350		300		750		750		2,400
69081	Pathways/Sidewalks Bike Lanes Maint/Enhan	24												-
60037	Asset Mgmt	523		450		100		100		100		100		850
60146	TMC Relocation Fund 310	1,122		-										-
60197	RM Facility Fund 310	750		500		500		500		500		500		2,500
69331-339	District 1,2,3,4,5,6 Sidewalk PIL	402												-
60191	Lap Design Phase	112												-
Subtotal Operations Improvements/Programs		27,210		12,650		11,700		15,150		15,600		20,750		75,850
60066	Congestion Mgmt Fare	918												-
60085	TIS Review	365		250	S	250	S	250	S	250	S	250	S	1,250
60088	PUD Monitoring	165												-
60109	Planning Consulting	443		500	S	500	S	500	S	500	S	500	S	2,500
60163	Traffic Studies	635		300		300		300		300		300		1,500
60171	Multi Project	80												-
	Advance/Repay to 325 STW	14,450												-
	Impact Fee Refunds	1,370		250		250		250		250		250		1,250
	Debt Service Payments	13,326		13,262		13,134		13,131		13,136		13,576		66,239
Total Funding Request All Funds		137,823		78,587		177,540		101,554		97,081		86,611		541,373
REVENUES														
	Sales Tax			9,127		86,407		26,973		31,650		29,535		183,692
	Impact Fees Revenue	18,130		15,000		15,500		15,500		15,500		15,500		77,000
	COA Revenue													-
	Gas Tax Revenue	22,975		23,000		24,000		24,000		24,000		24,000		119,000
	Grants/Reimbursements*	1,895		1,500		4,934		4,928						11,362
	DCA/Interlocal 62014			1,000										1,000
	Transfer 001 to 310	8,556		9,389		9,556		9,556		9,556		9,556		47,613
	Transfer 111 to 310	4,250		4,000		3,500		3,500		3,500		3,500		18,000
	Interest Gas Tax-Impact Fees	500		1,381		1,000		1,000		1,000		1,000		5,381
	Carry Forward 313-310-Impact Fees	129,093		47,576										47,576
	Potential Debt Funding/Unfunded Needs					26,000				723		5,545		32,268
	Expected FEMA Reimbursement					8,500								8,500
	Revenue Reserve 5%			(1,919)		(2,025)		(2,025)		(2,025)		(2,025)		(10,019)
	Total 5 Year Revenues	185,399		110,054		177,372		83,432		83,904		86,611		541,373
	Gross Surplus/Shortfall	47,576		31,467		(168)		(18,122)		(13,177)		-		-
Key:-														
A = Adv Construction / S = Study / D = Design														
M = Mitigation / C = Construction / R = ROW														
LS = Landscape / L = Litigation / I = Inspection														
AM = Access Mgmt / LP = SIB Loan Repayment														
@ = See separate supplemental maps														
**The 5-cent Local Option Fuel Tax is earmarked towards debt service, bridges, and intersection improvements.														
Sales Tax Projects:														
60168	Vanderbilt Beach Ext													
60201	Pine Ridge Rd (Livingston Intersection Imp)													
60066	11 Bridge Replacements													
60147	Immk/Randall Rd Intersection													
TBD	Airport Rd VBR to Immk Rd													
60215	Triangle Blvd/Price St													
60212	New Golden Gate Bridges (11)													
TBD	47th Street Bridge													
TBD	16th Street Bridge													
TBD	Sidewalks													
Total		9,127		86,407		26,973		31,650		29,535		7,308		7,308

Attachment "E"

Road Financing Plan Update

	FY 20	FY 21	FY 22	FY 23	FY 24	5 Year Total
Project/Program Commitments	65,075,000	164,156,000	88,173,000	83,695,000	72,785,000	473,884,000
Existing Debt Service	13,262,000	13,134,000	13,131,000	13,136,000	13,576,000	66,239,000
Impact Fee Refunds	250,000	250,000	250,000	250,000	250,000	1,250,000
Total Expenses	78,587,000	177,540,000	101,554,000	97,081,000	86,611,000	541,373,000
						-
Sales Tax Revenue	9,127,000	86,407,000	26,973,000	31,650,000	29,535,000	183,692,000
Impact Fee Revenue / COA Revenue	15,000,000	15,500,000	15,500,000	15,500,000	15,500,000	77,000,000
DCA	1,000,000	-	-	-	-	1,000,000
Gas Tax Revenue	23,000,000	24,000,000	24,000,000	24,000,000	24,000,000	119,000,000
Debt Svc General Fund Transfer	9,389,000	9,556,000	9,556,000	9,556,000	9,556,000	47,613,000
Transfer in from Fund 111	4,000,000	3,500,000	3,500,000	3,500,000	3,500,000	18,000,000
Interest Gas Tax/Impact Fee	1,381,000	1,000,000	1,000,000	1,000,000	1,000,000	5,381,000
Grants/Reimbursements *	1,500,000	13,434,000	4,928,000	-	-	19,862,000
Unfunded needs	-	26,000,000	-	723,000	5,545,000	32,268,000
Revenue Reserve (5% Budgeted by Statue)	(1,919,000)	(2,025,000)	(2,025,000)	(2,025,000)	(2,025,000)	(10,019,000)
Total Revenues	62,478,000	177,372,000	83,432,000	83,904,000	86,611,000	493,797,000
Carry Forward (Surplus or Shortfall) **	47,576,000	-	-	-	-	47,576,000
Additional Roll Forward						-
Fiscal Year Balance (Surplus or Shortfall)	31,467,000	(168,000)	(18,122,000)	(13,177,000)	-	-
Cumulative Fiscal Year Balance (Surplus or Shortfall)	31,467,000	31,299,000	13,177,000	-	-	

* Includes programmed FDOT Grants and Naples Reserve DCA

** Carry Forward includes the budgeted FY20 Carry forward and does not include project funding encumbered (roll over) in prior fiscal years to be paid out over the following schedule for phases (average time for payout): This Carry Forward number that includes the roll of encumbrances will not be available until after October 1, 2019 but attachment J provides a listing of major projects previously budgeted with carry forward funding anticipated to complete the project/phases.

Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements.

Attachment "F"																									
Collier County 2019 Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts																									
ID#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std	Peak Dir	Peak Hour ¹	2018 Peak Hour	2019 Peak Hour	2018 to 2019 Net Change	2018 to 2019 Percent Change	2018 1/7th Total Trip Bank	1/7th TB 2018 Volume	2019 Trip Bank	2019 1/7th Trip Bank	2019 1/7th Total Trip Bank	2019 Counts + 1/7th TB Volume	2019 Counts + 1/7th TB Remaining Capacity	2019 Counts + 1/7th TB V/C	2019 w/TB L O S	Traffic Count Year Expected Deficient	1/7 th Trip Bank Year Expected Deficient
										Peak Dir Service Volume	Peak Dir Volume	Peak Dir Volume													
1.0	60190	CR31	Airport Road	Immokalee Road	Vanderbilt Beach Road	4D	554	D	N	2,200	1220	1190	(30)	-2.46%	25	1245	24	0	24	1214	986	55.2%	C		
2.1		CR31	Airport Road	Vanderbilt Beach Road	Orange Blossom Drive	6D	599	E	N	3,000	1810	2290	480	26.52%	66	1876	44	0	44	2334	666	77.8%	D		
2.2		CR31	Airport Road	Orange Blossom Drive	Pine Ridge Road	6D	503	E	N	3,000	1770	2010	240	13.56%	54	1824	49	0	49	2059	941	68.6%	C		
3.0		CR31	Airport Road	Pine Ridge Road	Golden Gate Parkway	6D	502	E	N	3,000	2330	2240	(90)	-3.86%	14	2344	14	0	14	2254	746	75.1%	D		
4.0		CR31	Airport Road	Golden Gate Parkway	Radio Road	6D	533	E	N	2,800	2310	2190	(120)	-5.19%	22	2332	25	0	25	2215	585	79.1%	D		
5.0		CR31	Airport Road	Radio Road	Davis Boulevard	6D	553	E	N	2,800	2230	2010	(220)	-9.87%	11	2241	11	0	11	2021	779	72.2%	C		
6.0		CR31	Airport Road	Davis Boulevard	US 41 (Tamiami Trail)	6D	552	E	S	2,700	1650	1600	(50)	-3.03%	75	1725	62	2	64	1664	1036	61.6%	C		
7.0			Bayshore Drive	US 41 (Tamiami Trail)	Thomasson Drive	4D	521	D	S	1,800	620	640	20	3.23%	118	738	147	2	149	789	1011	43.8%	B		
8.0		CR 865	Bonita Beach Road	West of Vanderbilt Drive	Hickory Boulevard	4D	653	D	E	1,900	1060	1050	(10)	-0.94%	0	1060	0	0	0	1050	850	55.3%	C		
9.0			Carson Road	Lake Trafford Road	Immokalee Drive	2U	610	D	N	600	330	300	(30)	-9.09%	0	330	0	0	0	300	300	50.0%	B		
10.0			County Barn Road	Davis Boulevard	Rattlesnake Hammock Road	2U	519	D	S	900	380	380	0	0.00%	124	504	116	1	117	497	403	55.2%	C		
11.0		CR29	CR 29	US 41 (Tamiami Trail)	Everglades City	2U	582A	D	S	1,000	160	160	0	0.00%	0	160	0	0	0	160	840	16.0%	B		
12.0		SR84	Davis Boulevard	US 41 (Tamiami Trail)	Airport Road	6D	558	E	E	2,700	1610	1420	(190)	-11.80%	56	1666	55	0	55	1475	1225	54.6%	C		
13.0		SR84	Davis Boulevard	Airport Road	Lakewood Boulevard	4D	559	D	E	2,000	1580	1330	(250)	-15.82%	0	1580	0	0	0	1330	670	66.5%	C		
14.0		SR84	Davis Boulevard	Lakewood Boulevard	County Barn Road	4D	658	D	E	2,000	1670	1550	(120)	-7.19%	61	1731	61	0	61	1611	389	80.6%	D		
15.0		SR84	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	4D	538	D	E	2,200	1460	1410	(50)	-3.42%	196	1656	184	0	184	1594	606	72.5%	C		
16.1		SR84	Davis Boulevard	Santa Barbara Boulevard	Radio Road	6D	560	E	E	3,300	740	740	0	0.00%	225	965	86	139	225	965	2335	29.2%	B		
16.2		SR84	Davis Boulevard	Radio Road	Collier Boulevard	6D	601	E	W	3,300	1120	1190	70	6.25%	296	1416	73	214	287	1477	1823	44.8%	B		
17.0		CR876	Golden Gate Boulevard	Collier Boulevard	Wilson Boulevard	4D	531	D	E	2,300	1710	1730	20	1.17%	0	1710	0	0	0	1730	570	75.2%	D		
18.0		CR886	Golden Gate Parkway	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	530	E	E	2,700	1230	1230	0	0.00%	13	1243	13	0	13	1243	1457	46.0%	B		
19.0		CR886	Golden Gate Parkway	Goodlette-Frank Road	Airport Road	6D	507	E	E	3,300	2930	2860	(70)	-2.39%	5	2935	3	0	3	2863	437	86.8%	D		2027
20.1		CR886	Golden Gate Parkway	Airport Road	Livingston Road	6D	508	E	E	3,300	2290	2680	390	17.03%	12	2302	15	0	15	2695	605	81.7%	D		2029
20.2		CR886	Golden Gate Parkway	Livingston Road	I-75	6D	691	E	E	3,300	2610	3020	410	15.71%	0	2610	0	0	0	3020	280	91.5%	D	2024	2024
21.0		CR886	Golden Gate Parkway	I-75	Santa Barbara Boulevard	6D	509	E	E	3,300	2140	2400	260	12.15%	14	2154	14	0	14	2414	886	73.2%	C		
22.0		CR886	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	4D	605	D	E	1,800	1610	1670	60	3.73%	51	1661	50	8	58	1728	72	96.0%	E	2023	2022
23.0	TBD	CR851	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	2U	594	D	N	1,000	820	820	0	0.00%	46	866	43	0	43	863	137	86.3%	D		2027
24.1		CR851	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Drive	4D	595	E	N	2,400	1370	1380	10	0.73%	73	1443	73	0	73	1453	947	60.5%	C		
24.2		CR851	Goodlette-Frank Road	Orange Blossom Drive	Pine Ridge Road	6D	581	E	N	2,400	1680	1560	(120)	-7.14%	0	1680	0	0	0	1560	840	65.0%	C		
25.0		CR851	Goodlette-Frank Road	Pine Ridge Road	Golden Gate Parkway	6D	505	E	N	3,000	2220	1960	(260)	-11.71%	0	2220	0	0	0	1960	1040	65.3%	C		
26.0		CR851	Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	6D	504	E	N	2,700	2480	1960	(520)	-20.97%	0	2480	0	0	0	1960	740	72.6%	C		
27.0	TBD		Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	2U	642	D	E	900	680	710	30	4.41%	0	680	10	0	10	720	180	80.0%	D		
29.0			Gulfshore Drive	111th Avenue	Vanderbilt Beach Road	2U	583a	D	N	800	220	300	80	36.36%	0	220	0	0	0	300	500	37.5%	B		
30.1		CR951	Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	6D	655	E	N	3,000	1680	1850	170	10.12%	547	2227	441	106	547	2397	603	79.9%	D		2029
30.2		CR951	Collier Boulevard	Vanderbilt Beach Road	Golden Gate Boulevard	6D	584	E	S	3,000	1220	1260	40	3.28%	118	1338	70	32	102	1362	1638	45.4%	B		
31.1		CR951	Collier Boulevard	Golden Gate Boulevard	Pine Ridge Road	6D	536	D	N	3,000	1780	1850	70	3.93%	78	1858	49	30	79	1929	1071	64.3%	C		
31.2		CR951	Collier Boulevard	Pine Ridge Road	Green Boulevard	6D	536	D	N	3,000	1780	1850	70	3.93%	60	1840	85	22	107	1957	1043	65.2%	C		
32.1	68057	CR951	Collier Boulevard	Green Boulevard	Golden Gate Pwky	4D	525	D	N	2,300	1500														

Attachment "F"

Collier County 2019 Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

ID#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std	Peak Dir	Peak Hour ¹	2018 Peak Hour	2019 Peak Hour	2018 to 2019 Net Change	2018 to 2019 Percent Change	2018 1/7th Total Trip Bank	1/7th TB 2018 Volume	2019 Trip Bank	2019 1/7th Trip Bank	2019 Total Trip Bank	2019 Counts + 1/7th TB Volume	2019 Counts + 1/7th TB Remaining Capacity	2019 Counts + 1/7th TB V/C	2019 w/TB L O S	2019 Traffic Count Year Expected Deficient	1/7 th Trip Bank Year Expected Deficient
										Peak Dir Service Volume	Peak Dir Volume	Peak Dir Volume													
47.0			Lake Trafford Road	Carson Rd	SR 29	2U	609	D	E	800	500	460	(40)	-8.00%	51	551	44	4	48	508	292	63.5%	C		
48.0			Logan Boulevard	Vanderbilt Beach Road	Pine Ridge Road	2U	587	D	N	1,000	670	640	(30)	-4.48%	33	703	49	19	68	708	292	70.8%	C		
49.0			Logan Boulevard	Pine Ridge Road	Green Boulevard	4D	588	D	S	1,900	1610	1500	(110)	-6.83%	0	1610	0	0	0	1500	400	78.9%	D		
50.0			Logan Boulevard	Immokalee Road	Vanderbilt Beach Road	2U	644	D	N	1,000	570	600	30	5.26%	59	629	29	30	59	659	341	65.9%	C		
51.0		CR881	Livingston Road	Imperial Street	Immokalee Road	6/4D	673	D	N	3,000	1260	1230	(30)	-2.38%	61	1321	59	0	59	1289	1711	43.0%	B		
52.0		CR881	Livingston Road	Immokalee Road	Vanderbilt Beach Road	6D	576	E	N	3,100	1640	1800	160	9.76%	28	1668	26	0	26	1826	1274	58.9%	C		
53.0		CR881	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	6D	575	E	S	3,100	1490	1500	10	0.67%	4	1494	6	0	6	1506	1594	48.6%	B		
54.0		CR881	Livingston Road	Pine Ridge Road	Golden Gate Parkway	6D	690	E	N	3,100	1530	1490	(40)	-2.61%	46	1576	35	0	35	1525	1575	49.2%	B		
55.0		CR881	Livingston Road	Golden Gate Parkway	Radio Road	6D	687	E	N	3,000	1330	1490	160	12.03%	8	1338	32	0	32	1522	1478	50.7%	B		
58.0			N. 1st Street	New Market Road	SR-29 (Main Street)	2U	590	D	N	900	630	680	50	7.94%	26	656	13	8	21	701	199	77.9%	D		2028
59.0			New Market Road	Broward Street	SR 29	2U	612	D	E	900	590	540	(50)	-8.47%	15	605	15	5	20	560	340	62.2%	C		
61.0			Camp Keais	Oil Well Road	Immokalee Road	2U	626A	D	S	1,000	260	280	20	7.69%	204	464	132	72	204	484	516	48.4%	B		
62.0		CR887	Old US 41	Lee County Line	US 41 (Tamiami Trail)	2U	547	D	N	1,000	1070	1070	0	0.00%	40	1110	29	0	29	1099	(99)	109.9%	F	Existing	Existing
63.0		CR896	Seagate Drive	Crayton Road	US 41 (Tamiami Trail)	4D	511	D	E	1,700	1060	1030	(30)	-2.83%	0	1060	0	0	0	1030	670	60.6%	C		
64.0		CR896	Pine Ridge Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	512	E	E	2,800	1990	1910	(80)	-4.02%	6	1996	6	0	6	1916	884	68.4%	C		
65.0		CR896	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	6D	514	E	W	2,800	1980	2000	20	1.01%	6	1986	6	0	6	2006	794	71.6%	C		
66.0		CR896	Pine Ridge Road	Shirley Street	Airport Road	6D	515	E	E	2,800	2470	2910	440	17.81%	24	2494	24	0	24	2934	(134)	104.8%	F	Existing	Existing
67.1		CR896	Pine Ridge Road	Airport Road	Livingston Road	6D	526	E	E	3,000	2610	2980	370	14.18%	29	2639	23	0	23	3003	(3)	100.1%	F	2020	Existing
67.2	60201	CR896	Pine Ridge Road	Livingston Road	I-75	6D	628	E	E	3,000	3030	3020	(10)	-0.33%	112	3142	40	0	40	3060	(60)	102.0%	F	Existing	Existing
68.0		CR896	Pine Ridge Road	I-75	Logan Boulevard	6D	600	E	E	2,800	2190	2160	(30)	-1.37%	1	2191	1	0	1	2161	639	77.2%	D		
69.0		CR856	Radio Road	Airport Road	Livingston Road	4D	544	D	E	1,800	1180	1180	0	0.00%	3	1183	6	0	6	1186	614	65.9%	C		
70.0		CR856	Radio Road	Livingston Road	Santa Barbara Boulevard	4D	527	D	E	1,800	1170	1120	(50)	-4.27%	6	1176	27	0	27	1147	653	63.7%	C		
71.0		CR856	Radio Road	Santa Barbara Boulevard	Davis Boulevard	4D	685	D	W	1,800	640	710	70	10.94%	142	782	54	85	139	849	951	47.2%	B		
72.0		CR864	Rattlesnake Hammock Road	US 41 (Tamiami Trail)	Charlemagne Boulevard	4D	516	D	W	1,800	1030	1030	0	0.00%	143	1173	141	11	152	1182	618	65.7%	C		
73.0		CR864	Rattlesnake Hammock Road	Charlemagne Boulevard	County Barn Road	4D	517	D	W	1,800	830	760	(70)	-8.43%	119	949	117	11	128	888	912	49.3%	B		
74.0		CR864	Rattlesnake Hammock Road	County Barn Road	Santa Barbara Boulevard	4D	534	D	W	1,900	760	720	(40)	-5.26%	87	847	82	18	100	820	1080	43.2%	B		
75.0		CR864	Rattlesnake Hammock Road	Santa Barbara Boulevard	Collier Boulevard	6D	518	E	W	2,900	530	590	60	11.32%	170	700	88	75	163	753	2147	26.0%	B		
76.0			Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	4D	529	D	N	2,100	1240	1620	380	30.65%	0	1240	0	0	0	1620	480	77.1%	D		
77.0			Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	6D	528	E	N	3,100	1880	1960	80	4.26%	54	1934	54	0	54	2014	1086	65.0%	C		
78.0			Santa Barbara Boulevard	Radio Road	Davis Boulevard	6D	537	E	N	3,100	1450	1420	(30)	-2.07%	221	1671	241	0	241	1661	1439	53.6%	C		
79.0			Santa Barbara Boulevard	Davis Boulevard	Rattlesnake-Hammock Road	6D	702	E	S	3,100	950	980	30	3.16%	139	1089	220	0	220	1200	1900	38.7%	B		
80.0		SR29	SR 29	US 41 (Tamiami Trail)	CR 837 (Janes Scenic Dr)	2U	615A	D	N	900	130	140	10	7.69%	0	130	0	0	0	140	760	15.6%	B		
81.0		SR29	SR 29	CR 837 (Janes Scenic Dr)	I-75	2U	615A	D	N	900	130	140	10	7.69%	0	130	0	0	0	140	760	15.6%	B		
82.0		SR29	SR 29	I-75	Oil Well Road	2U	615A	D	N	900	130	140	10	7.69%	85	215	45	34	79	219	681	24.3%	B		
83.0		SR29	SR 29	Oil Well Road	CR 29A South	2U	665A	D	N	900	410	410	0	0.00%	84	494	39	30	69	479	421	53.2%	C		
84.0		SR29	SR 29	CR 29A South	9th Street	4D	664	D	W	1,700	620	590	(30)	-4.84%	131	751	82	37	119	709	991	41.7%	B		
85.0		SR29	SR 29	9th Street	CR 29A North	2U	663	D	S	900	630	620	(10)	-1.59%	96	726	71	24	95	715	185	79.4%	D		
86.0		SR29	SR 29	CR 29A North	SR 82	2U	663	D	S	900	630	620	(10)	-1.59%	73	703	43	23	66	686	214	76.2%	D		
87.0		SR29	SR 29	Hendry County Line	SR 82	2U	591A	D	S	800	370	380	10	2.70%	11	381	6	4	10	390	410	48.8%	B		
88.0		SR82	SR 82	Lee County Line	SR 29	2U	661A	D	S	800	740	750	10	1.35%	58	798	32	17	49	799	1	99.9%	E	2023	2020
91.0		US41	Tamiami Trail East	Davis Boulevard	Airport Road	6D	545	E	E	2,900	1920	1580	(340)	-17.71%	126	2046	137	2	139	1719	1181	59.3%	C		
92.0		US41	Tamiami Trail East	Airport Road	Rattlesnake Hammock Road	6D	604	E	E	2,900	2460	2230	(230)	-9.35%	373	2833	247	80	327</						

Attachment "F"

Collier County 2019 Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

ID#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std	Peak Dir	Peak Hour ¹	2018 Peak Hour	2019 Peak Hour	2018 to 2019 Net Change	2018 to 2019 Percent Change	2018 1/7th Total Trip Bank	1/7th TB 2018 Volume	2019 Trip Bank	2019 1/7 th Trip Bank	2019 1/7 th Total Trip Bank	2019 Counts + 1/7 th TB	2019 Counts + 1/7 th TB	2019 Counts + 1/7 th TB	2019 w/TB L O S	Traffic Count Year Expected Deficient	1/7 th Trip Bank Year Expected Deficient
										Peak Dir Service Volume	Peak Dir Volume	Peak Dir Volume													
109.0		CR862	Vanderbilt Beach Road	Gulfshore Drive	US 41 (Tamiami Trail)	2U/4D	524	E	E	1,400	990	930	(60)	-6.06%	0	990	8	0	8	938	462	67.0%	C		
110.1	60199	CR862	Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	4D	646	D	E	1,900	1410	1480	70	4.96%	7	1417	7	0	7	1487	413	78.3%	D		
110.2		CR862	Vanderbilt Beach Road	Goodlette-Frank Road	Airport Road	4D/6D	666	D	E	2,500	1750	1760	10	0.57%	7	1757	61	0	61	1821	679	72.8%	C		
111.1		CR862	Vanderbilt Beach Road	Airport Road	Livingston Road	6D	579	E	W	3,000	1960	1920	(40)	-2.04%	4	1964	4	0	4	1924	1076	64.1%	C		
111.2		CR862	Vanderbilt Beach Road	Livingston Road	Logan Blvd.	6D	668	E	E	3,000	2070	2210	140	6.76%	71	2141	78	0	78	2288	712	76.3%	D		
112.0		CR862	Vanderbilt Beach Road	Logan Boulevard	Collier Boulevard	6D	580	E	E	3,000	1690	1640	(50)	-2.96%	258	1948	202	2	204	1844	1156	61.5%	C		
114.0		CR901	Vanderbilt Drive	Bonita Beach Road	Wiggins Pass Road	2U	548	D	N	1,000	449	458	9	2.00%	35	484	1	32	33	491	509	49.1%	B		
115.0		CR901	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	2U	578	D	N	1,000	449	458	9	2.00%	16	465	0	13	13	471	529	47.1%	B		
116.0			Westclox Road	Carson Road	SR 29	2U	611	D	W	800	210	200	(10)	-4.76%	0	210	0	0	0	200	600	25.0%	B		
117.0		CR888	Wiggins Pass Road	Vanderbilt Drive	US 41 (Tamiami Trail)	2U	669	D	E	1,000	439	448	9	2.05%	30	469	14	13	27	475	525	47.5%	B		
118.0	60229		Wilson Blvd	Immokalee Road	Golden Gate Boulevard	2U	650	D	S	900	340	350	10	2.94%	0	340	1	0	1	351	549	39.0%	B		
119.0		CR858	Oil Well Road	Immokalee Road	Everglades Boulevard	4D	725S	D	E	2,000	850	840	(10)	-1.18%	287	1137	290	62	352	1192	808	59.6%	C		
120.0	60144	CR858	Oil Well Road	Everglades Boulevard	Desoto Boulevard	2U	694	D	W	1,100	350	390	40	11.43%	209	559	112	72	184	574	526	52.2%	B		
121.1			Oil Well Road	DeSoto Boulevard	Oil Well Grade	2U	694	D	W	1,100	350	390	40	11.43%	186	536	90	62	152	542	558	49.3%	B		
121.2			Oil Well Road	Oil Well Grade	Ave Maria Blvd	4D	694	D	W	2,000	350	390	40	11.43%	186	536	90	62	152	542	1458	27.1%	B		
122.0			Oil Well Road	Ave Maria Blvd	SR 29	2U	694	D	W	800	350	390	40	11.43%	170	520	99	54	153	543	257	67.9%	C		
123.0			Golden Gate Boulevard	Wilson Boulevard	18th Street NE/SE	4U	652	D	E	2,300	1190	1270	80	6.72%	15	1205	9	5	14	1284	1016	55.8%	C		
123.1	60145		Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	2U 4D	652	D	E	2,300	1190	1270	80	6.72%	5	1195	0	5	5	1275	1025	55.4%	C		
124.0			Golden Gate Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	1,010	227	232	5	2.20%	0	227	0	0	0	232	778	23.0%	B		
125.0		CR896	Pine Ridge Road	Logan Boulevard	Collier Boulevard	4D	535	D	E	2,400	1340	1540	200	14.93%	7	1347	0	7	7	1547	853	64.5%	C		
132.0	60147 & 60065		Randall Boulevard	Immokalee Road	Everglades Boulevard	2U	651	D	E	900	820	810	(10)	-1.22%	40	860	10	16	26	836	64	92.9%	D		2023
133.0	60065		Randall Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	900	639	652	13	2.03%	0	639	0	0	0	652	248	72.4%	C		
134.0			Everglades Boulevard	I-75	Golden Gate Blvd	2U	637S	D	S	800	450	530	80	17.78%	0	450	0	0	0	530	270	66.3%	C		
135.0			Everglades Boulevard	Golden Gate Boulevard	Oil Well Road	2U	636S	D	N	800	310	410	100	32.26%	45	355	42	9	51	461	339	57.6%	C		
136.0			Everglades Boulevard	Oil Well Road	Immokalee Road	2U	635S	D	N	800	450	490	40	8.89%	0	450	2	0	2	492	308	61.5%	C		
137.0			DeSoto Boulevard	I-75	Golden Gate Boulevard	2U	639A	D	S	800	150	140	(10)	-6.67%	0	150	0	0	0	140	660	17.5%	B		
138.0			DeSoto Boulevard	Golden Gate Boulevard	Oil Well Road	2U	638A	D	S	800	110	130	20	18.18%	8	118	8	0	8	138	662	17.3%	B		
142.0			Orange Blossom Drive	Goodlette-Frank Road	Airport Road	2D	647	D	W	1,200	400	380	(20)	-5.00%	19	419	19	0	19	399	801	33.3%	B		
143.0	60211		Orange Blossom Drive	Airport Road	Livingston Road	2U	647	D	W	1,000	400	380	(20)	-5.00%	46	446	40	0	40	420	580	42.0%	B		
144.0			Shadowlawn Drive	US 41 (Tamiami Trail)	Davis Boulevard	2U	523	D	N	800	230	220	(10)	-4.35%	0	230	7	0	7	227	573	28.4%	B		

¹ Level of service calculations for road facilities means calculations for peak hour traffic on a roadway segment for maximum service volumes at the adopted LOS. Peak hour is calculated as the 100th highest hour based on a 10 month period (omitting February and March), which is generally equivalent to the 250th highest hour for a twelve (12) month period. For design of roadway capacity projects, the 30th highest hour for a 12-month period at LOS "D" will be utilized. (LDC Section 6.02.03 C.)

Attachment "G"

2019 AIUR Update Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

2019 Existing Deficiencies Based on Traffic Counts												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
62.0			Old US 41	Lee County Line	US 41 (Tamiami Trail)	29	-99	109.9%	Yes	Existing	Existing	Within the Northwest TCMA; Widen to 4-Lanes; PD&E Study Programmed by FDOT; Pursue Federal Funding
66.0			Pine Ridge Road	Shirley Street	Airport Road	24	-134	104.8%	Yes	Existing	2024	Within the Northwest TCMA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
67.2			Pine Ridge Road	Livingston Road	I-75	40	-60	102.0%	Yes	Existing	Existing	Within the East Central TCMA; Congestion Corridor Study Complete, PE & CST for Pine Ridge Road @ Livingston programmed in CIE; PD&E Programmed in FY 19/20 for Interchange Area. Pursue state or federal funding for remainder of the corridor.

Projected Deficiencies 2020-2024 (Traffic Counts + Trip Bank & 1/7th Vested Trips)												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
20.2			Golden Gate Parkway	Livingston Road	I-75	0	280	91.5%	Yes	2024		Within the East Central TCMA - Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report;
22.0			Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	50	72	96.0%	Yes	2022	2023	Within the East Central TCMA - Operational Analysis Underway; Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report; Green Blvd. east of Logan being studied (FY2023) as a potential reliever.
33.0			Collier Boulevard	I-75	Davis Boulevard	40	263	92.7%	Yes	2024	2024	Within the East Central TCMA - Continue to Monitor; Interchange Improvements Scheduled for Construction by FDOT FY23
41.2			Immokalee Road	Goodlette-Frank Road	Airport Road	44	406	86.9%	Yes	2024	2023	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway (Veteran's Memorial Blvd) programmed for construction in FY21
43.2			Immokalee Road	Logan Boulevard	Collier Boulevard	782	284	91.1%	No	2024	2021	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2021 to Reduce Volumes;
44.0			Immokalee Road	Collier Boulevard	Wilson Boulevard	689	362	89.0%	No	2024		Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2021 to Reduce Volumes;
45.0			Immokalee Road	Wilson Boulevard	Oil Well Road	271	476	85.6%	No	2024		Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2021to Reduce Volumes;
67.1			Pine Ridge Road	Airport Road	Livingston Road	23	-3	100.1%	Yes	Existing	2025	Within the East Central TCMA - Pursue Detailed Capacity/Operational Analysis and Alternative Corridors
88.0			SR 82	Lee County Line	SR 29	32	1	99.9%	No	2020	2019	Widen to 4-Ln; State Funded for CST FY20 & FY23
95.3			Tamiami Trail East	Greenway Road	San Marco Drive	128	-120	111.2%	No	Existing	2019	Greenway Rd to 6-L Farms Rd is funded thru CST in the MPO CFP (2031-2040); East of 6-L Farms RD is not expected to be deficient within the same time frame; Continue to Monitor;
132.0			Randall Boulevard	Immokalee Road	Everglades Boulevard	10	64	92.9%	No	2023	2021	Immokalee Rd @ Randall Blvd Intersection Improvement PD&E Underway; Immokalee Rd. to 8th Street Funded for Construction in FY22; Randall Blvd. Corridor Study Complete; Continue to Pursue Funding

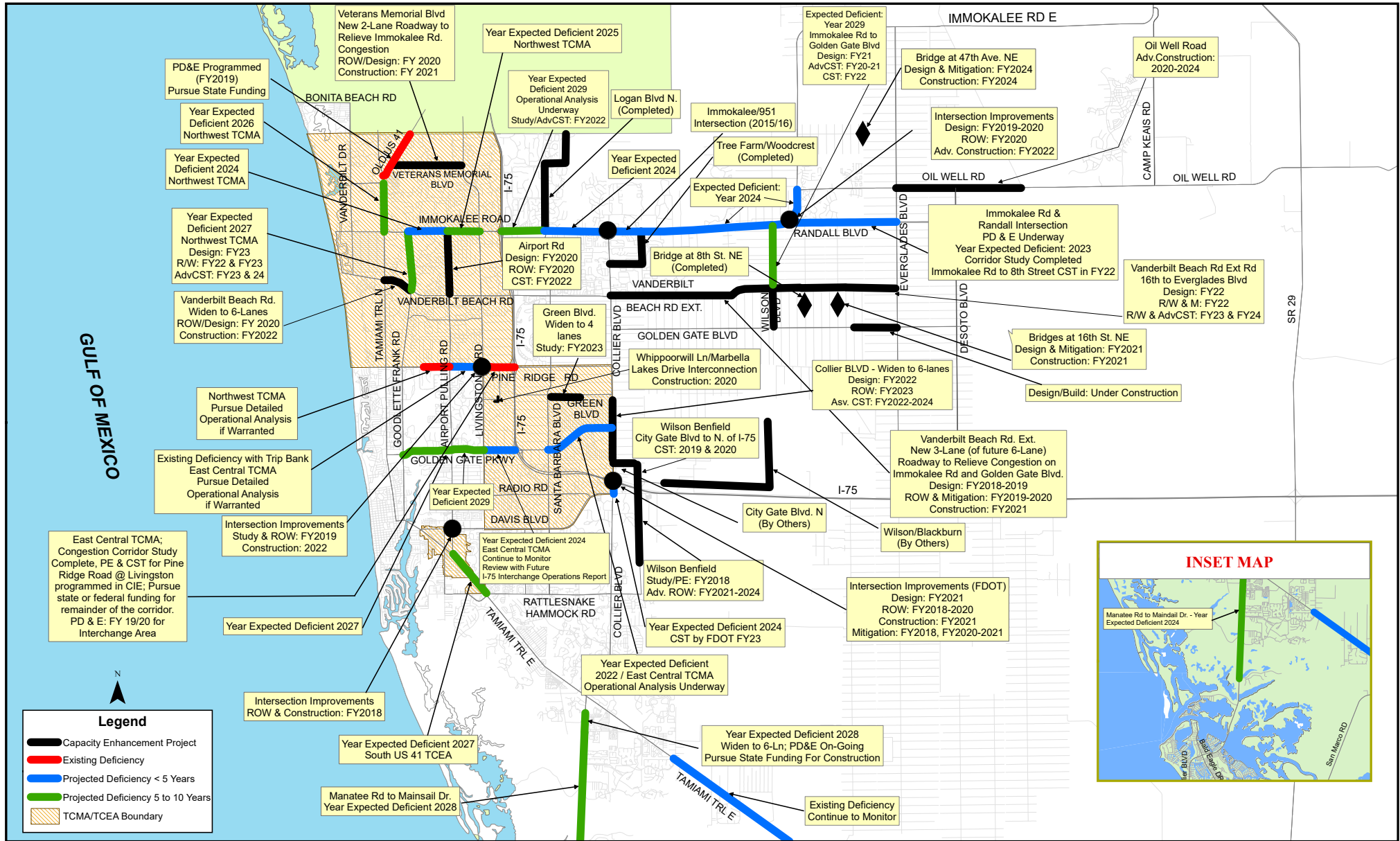
Attachment "G"

2019 AIUR Update Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

Projected Deficiencies 2025-2029 (Traffic Counts + Trip Bank & 1/7th Vested Trips)												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
19.0			Golden Gate Parkway	Goodlette-Frank Road	Airport Road	3	437	86.8%	No	2027	2024	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
20.1			Golden Gate Parkway	Airport Road	Livingston Road	15	605	81.7%	No	2029		Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
23.0			Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	43	137	86.3%	Yes	2027	2026	Within the Northwest TCMA - Design/ROW/AdvCST/CST Programmed FY2023
30.1			Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	441	603	79.9%	No	2029		Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; 4-laning of parallel reliever in 2022 (Wilson Blvd - Immokalee Rd. to GG Blvd)
36.2			Collier Boulevard	Wal-Mart Driveway	Manatee Road	159	268	86.6%	No	2028	2026	Widen to 6-Ln; PD&E completed; State Funded Improvement Proposed in MPO Cost Feasible Plan 2026-2030
37.0			Collier Boulevard	Manatee Road	Mainsail Drive	167	313	85.8%	No	2028	2024	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
42.1			Immokalee Road	Airport Road	Livingston Road	9	311	90.0%	Yes	2025	2022	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway (Veteran's Memorial Blvd) programmed for construction in 2022
43.1			Immokalee Road	I-75	Logan Boulevard	417	553	84.2%	No	2029	2026	Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025, Anticipate Future VBR Extension to Reduce Volumes; Operational Analysis Underway
58.0			N. 1st Street	New Market Road	SR-29 (Main Street)	13	199	77.9%	No	2028		Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
92.0			Tamiami Trail East	Airport Road	Rattlesnake Hammock Road	247	343	88.2%	Yes	2027	2020	Within the South US 41 TCEA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
99.0			Tamiami Trail North	Wiggins Pass Road	Immokalee Road	26	346	88.8%	Yes	2026	2020	Within the Northwest TCMA; Proposed Veterans Memorial Blvd. will provide a connection to Livingston North/South that should provide additional relief; Continue to Monitor
Dropped from the Lists												
26.0			Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	0	740	72.6%	No		2023	Continue to monitor; Pursue Detailed Operational Analysis if Warranted
14.0			Davis Boulevard	Lakewood Boulevard	County Barn Road	61	389	80.6%	Yes		2026	Within the East Central TCMA; Improvement is with a longer segment that is partially funded (R/W - 2031-40) in the MPO Cost Feasible Plan; Construction anticipated beyond 2040 (CST 2041-50); Continue to Monitor;
38.0			Collier Boulevard	Mainsail Drive	Marco Island Bridge	21	487	77.9%	No		2028	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
49.0			Logan Boulevard	Pine Ridge Road	Green Boulevard	0	400	78.9%	No		2023	Within the East Central TCMA; Continue to Monitor
4.0			Airport Road	Golden Gate Parkway	Radio Road	25	585	79.1%	No		2028	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;

ATTACHMENT H-1

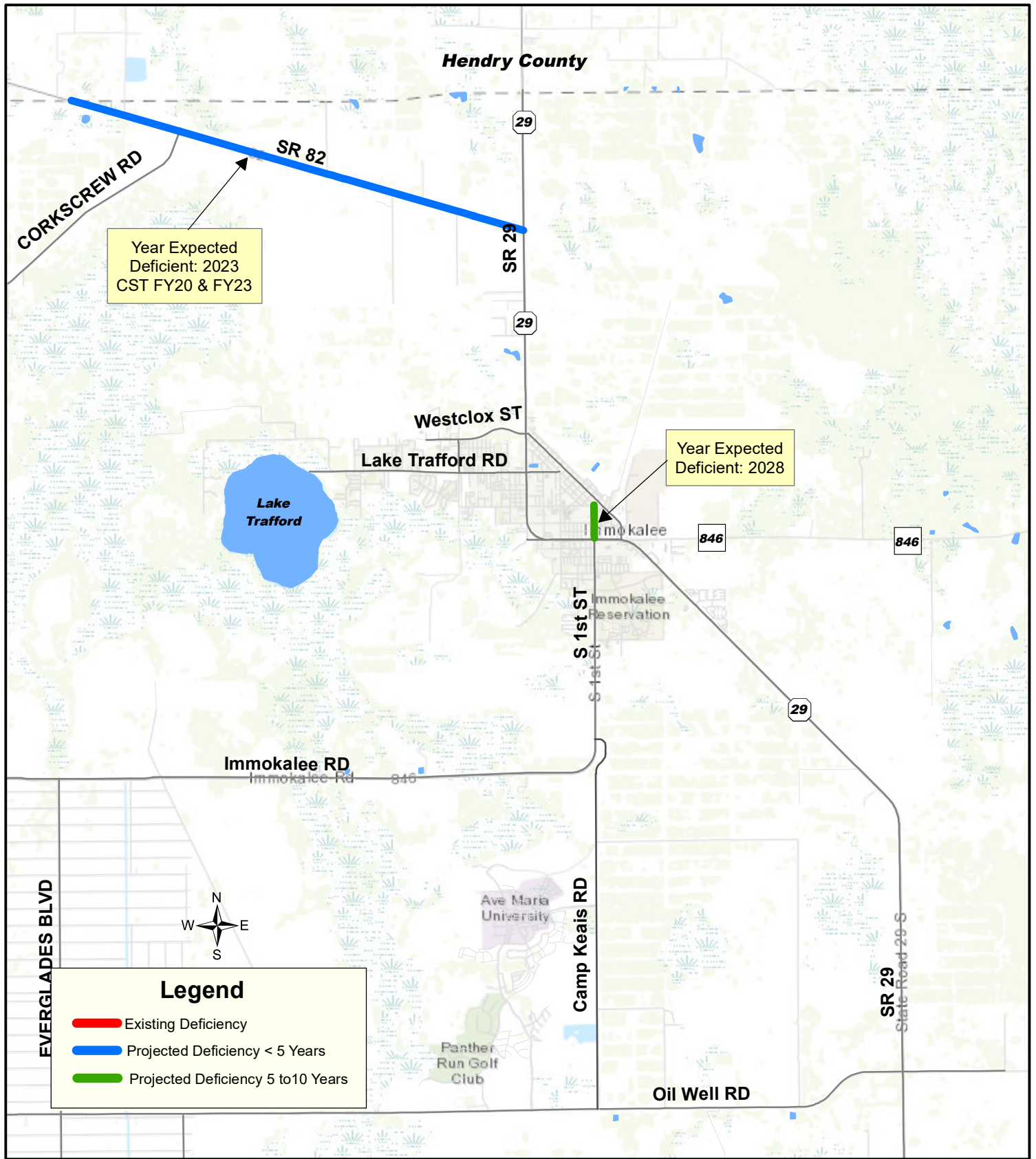


PROJECTED COLLIER COUNTY DEFICIENT ROADS FY 2019 - FY 2029



GIS MAPPING: BETH YANG, AICP
GROWTH MANAGEMENT DEPARTMENT

ATTACHMENT H-2



PROJECTED COLLIER COUNTY DEFICIENT ROADS FY 2019 - FY 2029

Growth Management Department
Transportation Planning

0 0.5 1 2 3 Miles

GIS Mapping: Beth Yang, AICP
Growth Management Department

Attachment I

TCMA Report

Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	To	PkHr-PkDir ⁽¹⁾ V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ VC <= 1.00
East Central TCMA								
31.1	Collier Boulevard	Pine Ridge Road	Green Boulevard	0.64	1.04	6	6.24	6.24
32.2	Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	0.70	1.01	4	4.04	4.04
32.3	Collier Boulevard	Golden Gate Main Canal	I-75	0.47	0.65	8	5.20	5.20
33.0	Collier Boulevard	I-75	Davis Boulevard	0.93	0.56	8	4.47	4.47
14.0	Davis Boulevard	Lakewood Boulevard	County Barn Road	0.81	1.71	4	6.83	6.83
15.0	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	0.72	0.75	4	3.02	3.02
16.1	Davis Boulevard	Santa Barbara Boulevard	Radio Rd.	0.29	2.62	6	15.71	15.71
16.2	Davis Boulevard	Radio Rd.	Collier Boulevard	0.45	2.32	6	13.93	13.93
20.2	Golden Gate Parkway	Livingston Rd.	I-75	0.92	1.97	6	11.8	11.82
21.0	Golden Gate Parkway	I-75	Santa Barbara Boulevard	0.73	1.01	6	6.07	6.07
22.0	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	0.96	2.21	4	8.84	8.84
27.0	Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	0.80	1.99	2	3.99	3.99
54.0	Livingston Road	Pine Ridge Road	Golden Gate Parkway	0.49	2.60	6	15.59	15.59
55.0	Livingston Road	Golden Gate Parkway	Radio Road	0.51	1.41	6	8.49	8.49
49.0	Logan Boulevard	Pine Ridge Road	Green Boulevard	0.79	0.88	4	3.53	3.53
67.2	Pine Ridge Road	Livingston Rd.	I-75	1.02	2.20	6	13.20	0.00
68.0	Pine Ridge Road	I-75	Logan Boulevard	0.77	0.99	6	5.97	5.97
125.0	Pine Ridge Road	Logan Boulevard	Collier Boulevard	0.64	1.88	4	7.53	7.53
70.0	Radio Road	Livingston Road	Santa Barbara Boulevard	0.64	2.00	4	7.98	7.98
71.0	Radio Road	Santa Barbara Boulevard	Davis Boulevard	0.47	1.34	4	5.36	5.36
76.0	Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	0.77	1.70	4	6.81	6.81
77.0	Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	0.65	1.40	6	8.43	8.43
78.0	Santa Barbara Boulevard	Radio Road	Davis Boulevard	0.54	1.05	6	6.32	6.32
					35.32		179.37	166.17

Total Lane Miles: 179.37

Lane Miles <=1.00 V/C: 166.17

Percent Lane Miles Meeting Standard: 92.6%

⁽¹⁾ V/C Ratio based upon Total Traffic, including Traffic Counts + Trip Bank + 1/7th Vested Trips

TCMA Report

Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	To	PkHr-PkDir ⁽¹⁾ V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ VC <= 1.00
Northwest TCMA								
98.0	Tamiami Trail North	Lee County Line	Wiggins Pass Road	0.70	1.67	6	10.0	10.02
99.0	Tamiami Trail North	Wiggins Pass Road	Immokalee Road	0.89	1.52	6	9.1	9.11
100.0	Tamiami Trail North	Immokalee Road	Vanderbilt Beach Road	0.58	1.51	6	9.1	9.06
101.0	Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	0.73	1.26	6	7.6	7.58
102.0	Tamiami Trail North	Gulf Park Drive	Pine Ridge Road	0.71	1.44	6	8.6	8.64
109.0	Vanderbilt Beach Road	Gulfshore Drive	Tamiami Trail	0.67	1.34	2	2.7	2.68
110.1	Vanderbilt Beach Road	Tamiami Trail	Goodlette-Frank Road	0.78	1.87	4	7.5	7.50
111.1	Vanderbilt Beach Road	Airport Road	Livingston Rd.	0.64	3.22	6	19.3	19.30
114.0	Vanderbilt Drive	Lee County Line	Wiggins Pass Road	0.49	2.52	2	5.0	5.03
115.0	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	0.47	1.49	2	3.0	2.99
117.0	Wiggins Pass Road	Vanderbilt Drive	Tamiami Trail	0.48	1.05	2	2.1	2.10
1.0	Airport Road	Immokalee Road	Vanderbilt Beach Road	0.55	1.97	4	7.9	7.89
2.1	Airport Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.78	1.53	6	9.2	9.18
23.0	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0.86	1.80	2	3.6	3.60
24.1	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.61	0.88	4	3.5	3.52
24.2	Goodlette-Frank Road	Orange Blossom Dr.	Pine Ridge Road	0.65	1.53	6	9.2	9.18
39.0	111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	0.45	0.51	2	1.0	1.01
40.0	111th Avenue N.	Vanderbilt Drive	Tamiami Trail	0.50	1.00	2	2.0	2.01
41.1	Immokalee Road	Tamiami Trail	Goodlette-Frank Rd.	0.73	1.47	6	8.8	8.84
42.1	Immokalee Road	Airport Road	Livingston Rd.	0.90	1.96	6	11.8	11.79
51.0	Livingston Road	Imperial Street	Immokalee Road	0.43	3.31	6	19.8	19.85
52.0	Livingston Road	Immokalee Road	Vanderbilt Beach Road	0.59	1.99	6	12.0	11.96
53.0	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	0.49	2.21	6	13.3	13.26
63.0	Seagate Drive	Crayton Road	Tamiami Trail	0.61	0.48	4	1.9	1.93
64.0	Pine Ridge Road	Tamiami Trail	Goodlette-Frank Road	0.68	0.50	6	3.0	3.02
65.0	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	0.72	0.67	6	4.0	4.05
66.0	Pine Ridge Road	Shirley Street	Airport Road	1.05	0.81	6	4.9	0.00
67.1	Pine Ridge Road	Airport Road	Livingston Rd.	1.00	2.09	6	12.56	12.56
2.2	Airport Road	Orange Blossom Dr.	Pine Ridge Rd.	0.69	2.92	6	17.5	17.51
41.2	Immokalee Road	Goodlette-Frank Rd.	Airport Road	0.87	2.47	6	14.8	14.81
42.2	Immokalee Road	Livingston Rd.	I-75	0.74	1.78	7	12.5	12.48
62.0	Old US 41	US 41 (Tamiami Trail)	Lee County line	1.10	1.57	2	3.1	0.00
110.2	Vanderbilt Beach Road	Goodlette-Frank Rd.	Airport Road	0.73	2.40	4	9.6	9.58
111.2	Vanderbilt Beach Road	Livingston Rd.	I-75 Logan Blvd.	0.76	1.00	6	6.0	6.00
					55.77		276.05	268.03

Total Lane Miles: 276.0

Lane Miles <=1.0 V/C: 268.0

Percent Lane Miles Meeting Standard: 97.1%

⁽¹⁾ V/C Ratio based upon Total Traffic, including Traffic Counts + Trip Bank + 1/7th Vested Trips

Attachment J
FY19 Activity Report on continuing Projects under Contract/DCA/Advanced Construction
(Dollars shown in Thousands)

Project Number	SUMMARY OF PROJECTS BY NAME	FY19 Amount
60145	Golden Gate Blvd 20th to Everglades	21,935
60168	Vanderbilt Beach Rd Collier Blvd to 8th St	27,154
60129	Wilson Benfield	3,487
	Total	52,576

****As of 6/30/19**

COUNTY STORMWATER MANAGEMENT SYSTEM

CONTENTS

- **COUNTY STORMWATER MANAGEMENT SYSTEM
– SUMMARY**
- **EXISTING CANAL SYSTEMS AND CONTROL STRUCTURES –
OVERVIEW**
- **COUNTYWIDE STORMWATER CANAL SYSTEM – MAP**
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MAP**
- **PROPOSED STORMWATER MANAGEMENT 5-YEAR WORK
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- **STORMWATER MANAGEMENT PROJECT DESCRIPTIONS**
- **STORMWATER MANAGEMENT PROJECT LOCATION MAP**
- **ATTACHMENT A: STORMWATER MANAGEMENT PROJECT
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 - TABLE 2 – CURRENT CANAL SYSTEM INVENTORY**
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 - FIGURE 4– COLLIER COUNTY BASINS MAP**
 - FIGURE 5– COLLIER COUNTY DISCHARGE RATE MAP**
 - TABLE 5– COLLIER COUNTY BASINS**

2019 AUIR STORMWATER MANAGEMENT SYSTEM FACILITIES SUMMARY

Facility Type: County Maintained System of Stormwater Management Canals & Structures
(Category A)

Level of Service (LOS) Standard: Varies by individual watershed

Existing System within Collier County:

Based on current Collier County GIS Database

Existing Major Canals	406.8 Miles
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System Maintained by Collier County:

Based on current Collier County GIS Database

Existing Major Canals	143.2 Miles
Proposed Reconstruction/Additions within 5-Year Planning Period	1.2 Miles
Existing Major Water Control Structures	72
Proposed Replacement/Additional Structures within 5-Year Planning Period	3

Stormwater Program Summary FY 2020 thru FY 2024

Recommended Work Program	\$ 130,163,000
Recommended Revenues	\$ 31,577,000
Five-Year Surplus or (Deficit)	\$ (98,586,000)

Based on projected funding availability and does not reflect the entirety of unmet stormwater needs. FY20 outlays actual proposed budget, subsequent years are proposed/estimated and are subject to change.

1. Existing Revenue Sources FY20-24

Roll Forward	\$ (8,000)
General Fund (001)	\$ 23,470,000
General Fund (111)	\$ 6,500,000
General Fund (310)	\$ 2,000,000
Anticipated Grants	\$ 80,000
Interest	\$ 250,000
Neg 5% Revenue Reserve	\$ (15,000)
325 Reserves	\$ (700,000)
Total	\$ 31,577,000

2. Supplemental Revenue Sources

None Required

Recommended Action

That the BCC direct the County Manager or his designee to include County stormwater projects appearing on the proposed “Stormwater Five - Year Work Program,” (Table 1) as detailed in the attached Project Descriptions and prioritized by the Stormwater Project Prioritization Process in the next Annual CIE Update and Amendment with the application of revenues as outlined in the Program Revenue section of Table 1; and that it approves the proposed 2019 Stormwater Management System AUIR and adopt the CIE Update for FY2019/20 – FY2023/24.

EXISTING MAJOR CANAL SYSTEMS AND CONTROL STRUCTURES

Currently, the County maintains 143.2 miles of canal (including ditches) and 72 stormwater control structures. Figures 1 and 2 show the locations for all major canals (including ditches) and stormwater control structures maintained by the County, respectively. Table 2 shown in Attachment C, identifies all canals and ditches within Collier County.

The County, working collaboratively with South Florida Water Management District, provides easements over the primary and secondary watercourses, in accordance with the Cooperative Agreement between Collier County and South Florida Water Management District. Table 3 identifies control structures maintained by Collier County.

In 2012, CH2MHill completed a structural evaluation of county major water control structures. Each control structure (Table 3) has an overall condition rating based on two types of inspections: Structural and Civil. The overall condition rating ranks from C-1 (no action needed) to C-5 (critical repair or replacement needed immediately). The ratings are based on identified deficiencies and the potential resulting impact. Table 4 explains each rating. The County is currently in the process of completing an updated structural evaluation of all county stormwater control structures with CH2M and is included in Table 3, which provided the draft evaluation results of the 2019 Report.

Figure 1: Collier County Major Stormwater Canal System

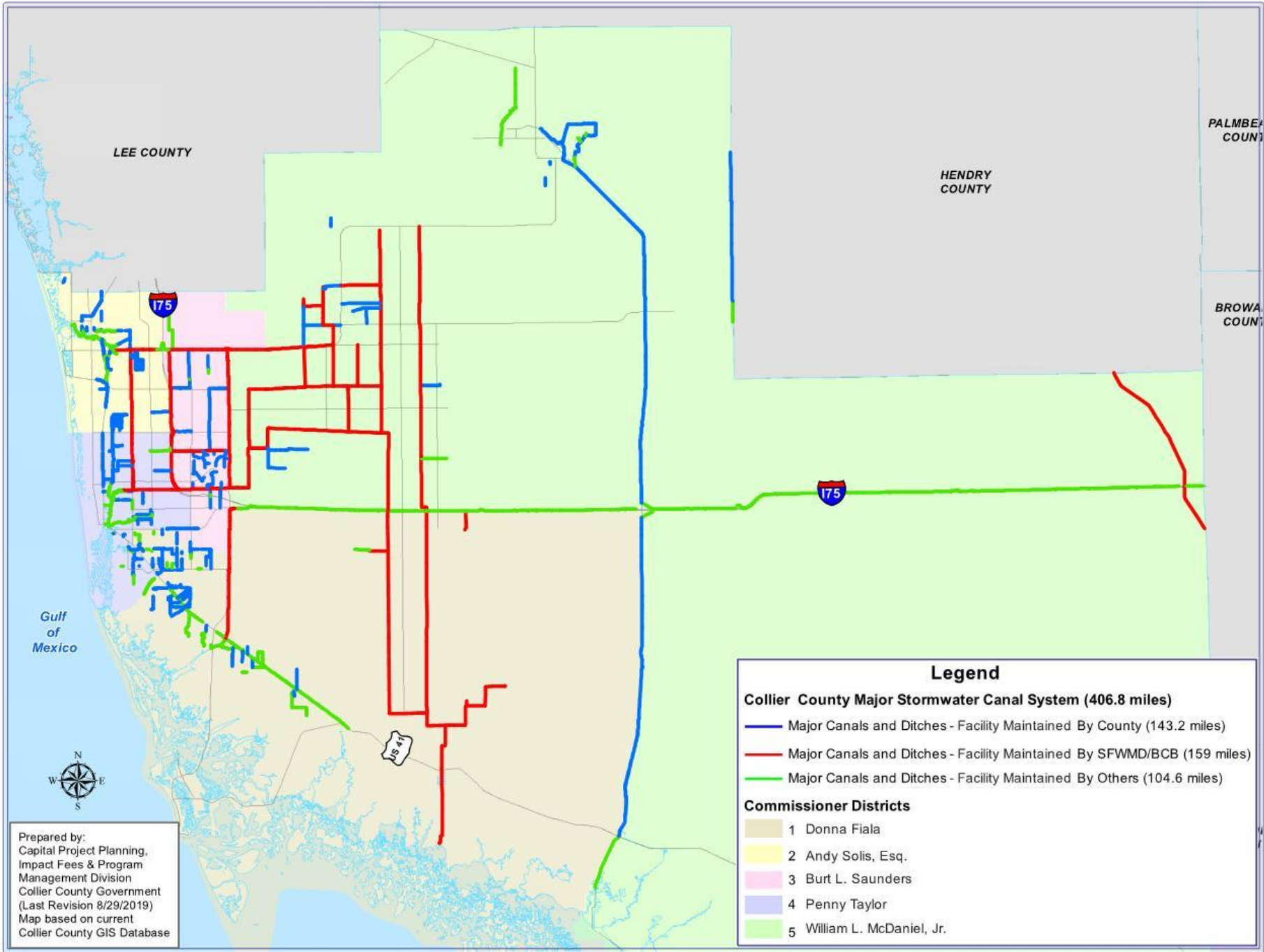
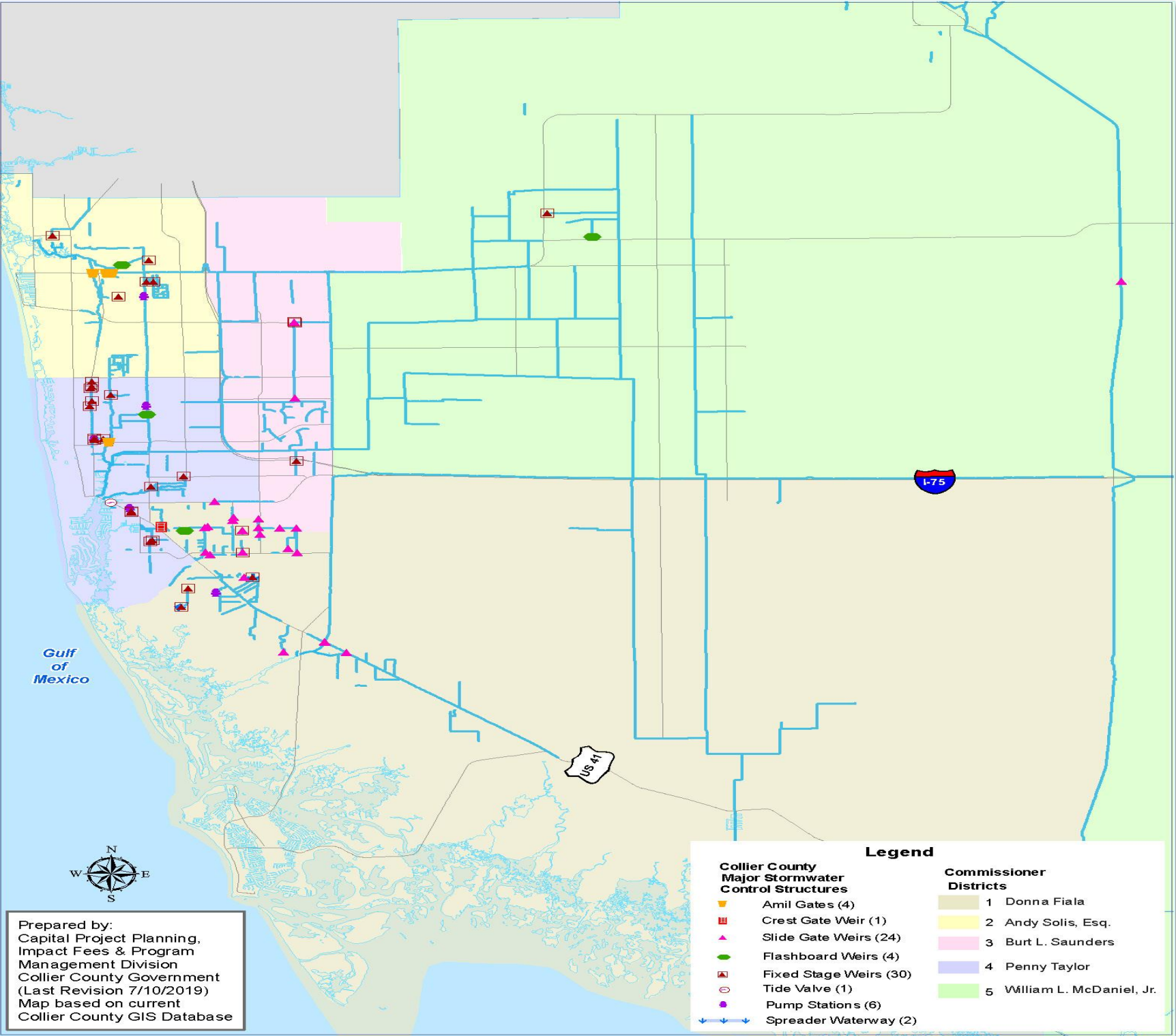


Figure 2: Collier County Major Stormwater Control Structures



2019 AUIR FACILITY SUMMARY FORM – Stormwater Management
Facility Type: County Maintained System of Secondary Stormwater Management Canals & Structures (Category A)

Table 1 - FY 20 - FY 24

Plan Year		1		2		3		4		5		5 - Year
Fiscal Year		FY 20		FY 21		FY 22		FY 23		FY 24		Totals
Proj. No.	Countywide Programs, Planning & Maintenance											
51144	Stormwater Feasibility and Preliminary Design	310	P	400	P	400	P	400	P	400	P	1,910
60121	NPDES MS4 Program	100	P	150	P	150	P	200	P	200	P	800
60194	Stormwater Maintenance	100	M	250	M	300	M	350	M	350	M	1,350
	Infrastructure & Capacity Projects											
51029	GG City Outfall Replacements			3,750	DC	4,500	DC	6,000	DC	6,000	DC	20,250
60126	Pine Ridge (FKA Mockingbird Lake)	150	D	150	DR	500	DC	500	C	500	C	1,800
60143	Immokalee Stormwater Improvement Project	800	DR	2,400	RC	2,000	DR	4,500	RC	3,000	DR	12,700
60139	Naples Park SW Improvement (PUD) *		DC	4,200	DC	4,200	DC	4,200	DC	4,200	DC	16,800
60142	W. Goodlette-Frank (CON) *	1,000	D	6,500	C	6,500	C	6,500	C	500	C	21,000
60195	Harbor Lane Brookside (CON)	-		1,000	DC							1,000
60102	Upper Gordon River	1,923	DC	6,000	DC	3,000	DRC	5,000	C	5,000	C	20,923
60196	Griffin Road Area Outfall	-		500	C	500	C					1,000
51101	LASIP: Branch 11			600	C							600
33554	RESTORE	200	PD	1,000	PD	1,000	PD	5,000	C	1,000	PD	8,200
50169	Bayshore Gateway CRA	100	PD									100
TBD	Resource Recovery Park			500	DC							500
50160	Weir Automation /Regional Control Center (SFWM)	100	DC	750	DC	750	DC	750	DC	500	DC	2,850
TBD	Old Lely (PUD)			500	D	1,000	C	1,000	C	1,000	C	3,500
60222	I-75 Coco Interconnect (SFWM)	500	C									500
33606	Cocohatchee Dredge (SFWM)	750	C									750
60234	Palm River SWIP (PUD)	500	D	1,500	C	2,000	C	2,000	C	500		6,500
TBD	Poinciana Village			250	DC	1,500	DC	2,000	C	1,000		4,750
TBD	Plantation Island Canals/Ditches (State)	600	C	1,500	C							2,100
60235	Model of Coco/Haldeman/Henderson (SFWM)	200	D									200
TBD	Naples Manor (CDBG)	80	PD									80
	Total Program Cost***	7,413		31,900		28,300		38,400		24,150		130,163

* Denotes projects with FY 19 funding including grant awards; see program revenue section below.

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

Program Revenue (Fund 325)

Plan Year		1		2		3		4		5		5 - Year
Fiscal Year		FY 20		FY 21		FY 22		FY 23		FY 24		Totals
	New Budget From 101	4,694		4,694		4,694		4,694		4,694		23,470
	New Budget From 111	1,300		1,300		1,300		1,300		1,300		6,500
	New Budget From 310	2,000										2,000
	Anticipated Grants	80		0		0		0		0		80
	Interest	50		50		50		50		50		250
	Neg 5% Revenue Reserve	(3)		(3)		(3)		(3)		(3)		(15)
	325 Reserves	(700)										(700)
	Carry Forward	(8)										(8)
	Unmet Funding Needs			25,859		22,259		32,359		18,109		98,586
	Total Program Revenue	7,413		31,900		28,300		38,400		24,150		130,163

Notes: 1. All numbers are in thousands of dollars.

2. 2020 outlay actual budget proposed, subsequent years proposed/estimated & subject to change.

FY 20 – 24 PROJECT DESCRIPTIONS

Countywide Programs, Planning & Maintenance

Stormwater Feasibility and Preliminary Design (P/N 51144)

This project includes funding for long range strategic planning for future program progression, capital improvement project identification and prioritization, specific basin issue evaluation and funding appropriation analysis. Individual Project Feasibility Studies will be funded from this Project and guided by the project ranking criteria established in the Planning process identified in Attachment A.

NPDES MS4 Program (P/N 60121)

Funding within this project covers continued development of and compliance with the federally mandated National Pollutant Discharge Elimination System (NPDES) permitting program for the County operated Municipal Separate Storm Sewer System (MS4).

Stormwater Maintenance (P/N 60194)

This project includes funding of various maintenance activities associated with certain existing county stormwater management assets such as the Freedom Park water quality treatment system, Serenity Park's surface water management area, and the Wiggins Pass Road area surface water flow way.

Infrastructure & Capacity Projects

1. Golden Gate City Outfall Replacements (P/N 51029)

Project is to improve collection treatment and conveyance urban stormwater runoff by restoring an upgrading antiquated system installed in early 1960s within the four (4) square mile area known as Golden Gate City (GGC). The GGC canal system flows into Naples bay via the Main Golden Gate Canal. The project includes the replacement and improvements to existing aging infrastructure such as the removal of old catch basins replaced with ditch bottom inlets with grates to catch debris, the addition of sumps at catch basins, re-grading and sodding of swales to prevent erosion providing water quality improvement. Over a \$50 million program. Individual projects to be delivered as time and budget allow.

2. Pine Ridge Stormwater Management Improvements (P/N 60126)

A feasibility study/master plan was completed in 2017 to serve as a guide for this area's future projects. Improvements in the Pine Ridge Estates Area include replacement of existing aging infrastructure such as catch basins, culverts and re-grading and sodding of roadside swales. Current work includes design of outfall improvements in Basin 6.

3. Immokalee Stormwater Improvements (P/N 60143)

This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond sighting feasibility analysis, coordination with the Lake Trafford Management Group, and the Immokalee Water and Sewer District. Future stormwater management improvement projects, as prioritized by the master plan update, will be fully coordinated and vetted with the Immokalee Community Redevelopment Agency.

4. Naples Park Area Stormwater Improvements (P/N 60139)

In coordination with the Public Utilities Division, this project includes water main and sanitary sewer collection system replacements, as well as roadside stormwater management system

improvements. Roadside stormwater improvements are occurring in conjunction with utility replacement work on all east-west streets in the Naples Park Subdivision. This is a multi-year, multi-phase project.

5. West Goodlette-Frank Road Area Stormwater Improvement (P/N 60142)

Project planning and design has been completed, construction is currently underway, in coordination with the City of Naples Wastewater Collection System improvements to address stormwater (flooding) problems and existing septic system failures during periods of high rainfall on several streets between Goodlette-Frank Road and US-41. Stormwater runoff from the area flows east into the upper Gordon River then to Naples Bay. Work will include water quality improvements designed to decrease nutrient loading of stormwater runoff conveyed to the sensitive impaired receiving waters of Gordon River and Naples Bay. All phases north of the existing project to convert over 900 septic tanks to sewer conversions in addition to current project.

6. Harbor Lane Brookside (P/N 60195)

Harbor Lane is a street in the Brookside neighborhood which needs surface and possibly base refurbishment. The street's stormwater management system has reached the end of its life span and needs reconstruction as well. A new stormwater management system is currently under design. The design includes new culverts and catch basins as well as necessary water quality improvements. The Brookside neighborhood discharges stormwater into Naples Bay, an impaired waterbody. Construction is currently planned for FY 21 pending availability of funds. Contingent upon successful completion of the Harbor Lane improvements, the few remaining streets in the Brookside neighborhood will be considered for future work when funds become available. Vetting of all work within the Brookside HOA is beginning now during the design phase. City of Naples watermain replacement is also being considered as part of this project.

7. Upper Gordon River Stormwater Improvements (P/N 60102)

The Gordon River watershed consists of approximately 4,432 acres and is bounded by the Crossings to the north, the Conservancy of Southwest Florida to the south, Airport Pulling Rd to the east, and US 41 to the west. Various areas throughout the Gordon River Extension (GRE) basin experience high water inundation conditions during heavy rainfall events. These areas include the Country Club of Naples, Forest Lakes, Pine Ridge Industrial Park, Poinciana Village, Golden Gate Parkway, and the properties west of GF Rd, north of Golden Gate Parkway, and south of Pine Ridge Rd. A hydrologic/hydraulic modeling analysis was performed on the basin to determine various solutions to eliminate or effectively reduce the inundation conditions. The existing conditions model indicated a poorly maintained stormwater infrastructure serving the GRE basin. After the modeling and analysis of various proposed scenarios, it is recommended to implement the following eight improvements to relieve flooding scenarios throughout the basin; the Golden Gate Parkway AMIL Gate Weir Replacement, Goodlette-Frank Supplemental Outfall, Freedom Park Stormwater Pump Station, Freedom Park Bypass Ditch & Spreader Swale, Goodlette-Frank Ditch Improvements, Solana/Burning Tree Box Culvert Extension, Maintenance Access Road/ Seawall, and the Forest Lakes Rock Weir Replacement. The implementation of the proposed improvements provided a flood area reduction of approximately 400 acres within the basin.

8. Griffin Road Area Stormwater Improvements (P/N 60196)

The Griffin Road Area Stormwater Improvement Project is located near the southwestern terminus of Griffin Road in the East Naples area of Collier County off of US41 (Tamiami

Trail) and Barefoot Williams Road. The project includes construction of a water quality treatment area on Rookery Bay National Estuarine Research Reserve property. The focus of the project is to provide water quality treatment facilities and an adequate stormwater outfall for the area to reduce frequency of flooding.

9. LASIP: Branch 11 (P/N 51101)

The project is within the “LASIP” (Lely Area Stormwater Improvement Project) area. The new work consists of improving a branch of canal that was discovered during construction of the Naples Manor North canal. It is undergoing scouring (erosion) and residents are concerned about undermining the foundations of their houses. Professional consultants will survey and assess the area then create a set of plans to repair the bank along with refurbishment or replacement of any stormwater facilities that may need it. A contractor will then be hired to make these improvements.

10. RESTORE (P/N TBD)

This is a new, large, comprehensive watershed improvement initiative currently in a conceptual planning stage. The initiative includes development of a suite of projects to be completed in phases, all with the goal of rehydrating and restoring historic, wet season surface water overland flow principally within the Belle Meade region of Collier County. Project concepts and a multiyear plan have been submitted to the state and the US Department of the Treasury to gain authorization for use of RESTORE Act funds to further the initiative.

11. Bayshore CRA (P/N TBD)

A preliminary engineering study to identify design alternatives, constraints and opportunities to improve the stormwater management system within the Bayshore CRA Area. The complete comprehensive preliminary engineering study will provide the basis upon which stormwater improvements will be designed.

12. Resource Recovery Park

This project is a future initiative to meet stormwater requirements to incorporate remote operations/automation of weir gate operations and remote operation capability to gain efficiencies for several water flow and level control structures (weirs).

13. Weir Automation (P/N TBD)

This is one of many future initiatives being programmed as resources and funding becomes available. Current projects involving work on several water flow and level control structures (weirs) are in various stages of implementation. “Work” includes planning and design of powered weir gate operations and remote operation capability. All new and rehabilitated weirs with manually adjustable control gates are being considered for this potential future automation upgrade.

14. Old Lely (P/N TBD)

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Lely neighborhood community. This joint effort will reduce construction costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

15. I-75 Canal and Cocohatchee Canal Interconnect

The proposed stormwater improvement includes the installation of a concrete pad immediately east of the I-75 Canal and south of Immokalee Road, for the deployment of a temporary emergency pump; installation of a pump discharge line, by directional bore, under Immokalee Road and the Cocohatchee Canal (to receive canal flows from the south in the I-75 Canal, under emergency conditions); and, construction of a discharge structure on the north side of the Cocohatchee Canal to orient receiving flows downstream.

16. Project Number 60139 – Palm River Stormwater Improvement

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Palm River community. This joint effort will reduce construction costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

17. Cocohatchee River Dredge/Conveyance Project

The proposed stormwater improvement includes a survey and design of the dredge area to determine the silt removal quantity, develop spoil handling and disposal methodology, obtain all necessary permits, communicate/coordinate with all affected property owners, and dredging of the delineated areas of silt built-up at the Cocohatchee River and Palm River area, affecting downstream conveyance (site is generally located on the north side of Immokalee Road, approximately 0.4 miles east of Goodlette-Frank Road).

18. Poinciana Village

The stormwater improvement project will include stormwater management improvements within the Poinciana Village community, based on a preliminary engineering study that has identified design alternatives, constraints, and opportunities to improve the stormwater management system within Poinciana Village.

19. Plantation Island Canals/Ditches

Dredging of the Plantation Island Area waterways as a joint effort with Collier County Stormwater Management and Florida Department of Environmental Protection.

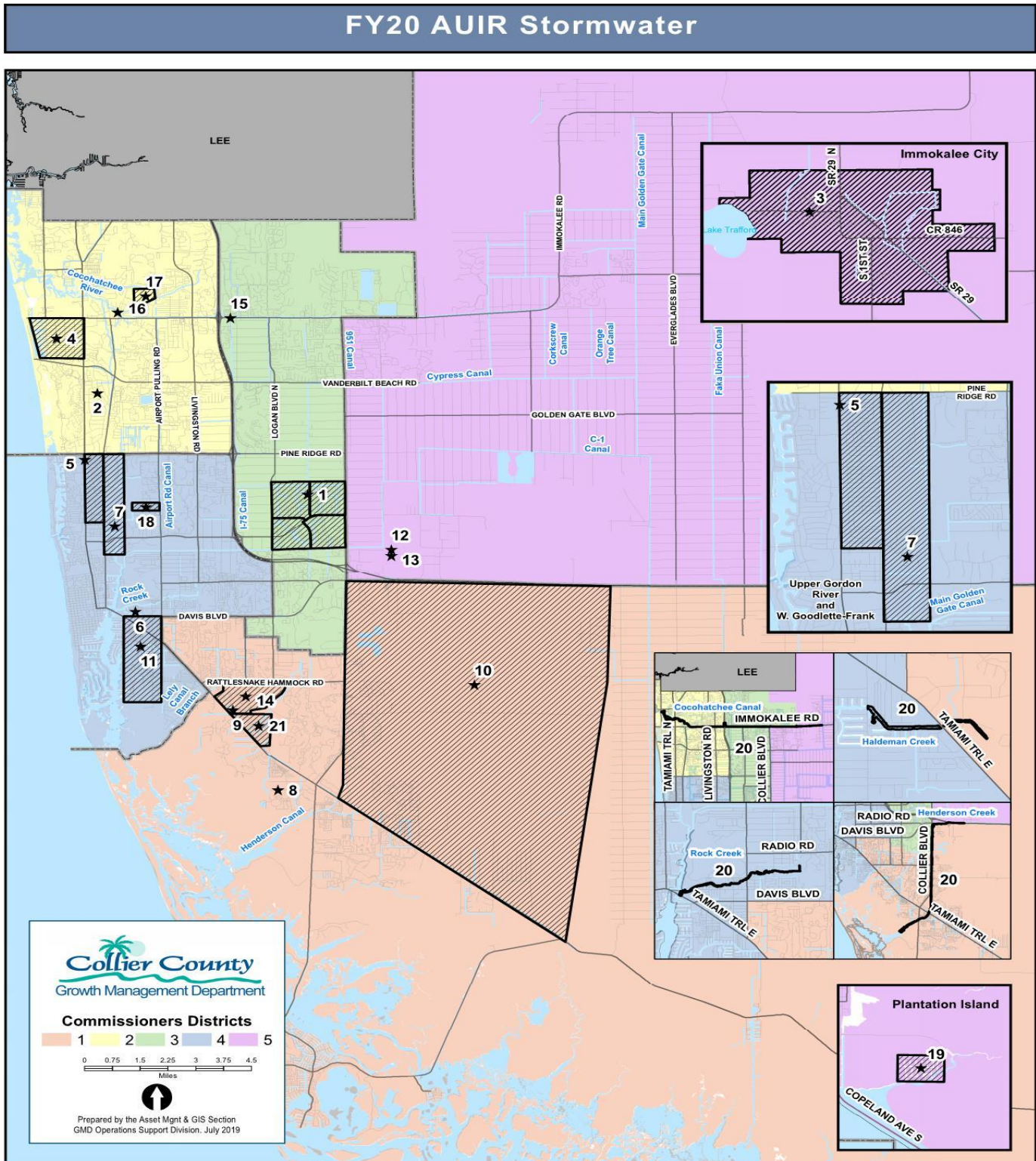
20. Modeling of Cocohatchee River/Haldeman/Henderson

Modeling of the key areas as joint effort with Collier County Stormwater Management and South Florida Water Management District. The proposed study includes the modeling of key areas of conveyance of Collier County including but not limited to Cocohatchee River, Haldeman and Henderson Creeks.

21. Naples Manor

A preliminary engineering study to identify design alternatives, constraints and opportunities to improve the stormwater management system within Naples Manor. The complete comprehensive preliminary engineering study will provide the basis upon which stormwater improvements for Naples Manor will be designed.

Figure 3: 2019 AUIR Project Location Map



Map Ref. No.	Project No.	Project Name
1	51029	GG City Outfall Replacements
2	60126	Pine Ridge (FKA Mockingbird Lake)
3	60143	Immokalee Stormwater Improvement Project
4	60139	Naples Park SW Improvement (PUD) *
5	60142	W. Goodlette-Frank (CON) *
6	60195	Harbor Lane Brookside (CON)
7	60102	Upper Gordon River
8	60196	Griffin Road Area Outfall
9	51101	LASIP: Branch 11
10	33554	RESTORE

Map Ref. No.	Project No.	Project Name
11	50169	Bayshore Gateway CRA
12	TBD	Resource Recovery Park
13	50160	Weir Automation /Regional Control Center (SFWMD)
14	TBD	Old Lely (PUD)
15	60222	I-75 Coco Interconnect (SFWMD)
16	TBD	Cocohatchee Dregde (SFWMD)
17	60234	Palm River SWIP (PUD)
18	TBD	Poinciana Village
19	TBD	Plantation Island Canals/Ditches (State)
20	60235	Model of Coco/Haldeman/Henderson (SFWMD)
21	TBD	Naples Manor (CDBG)

Attachment “A”

COLLIER COUNTY STORMWATER MANAGEMENT PROJECT PLANNING PROCESS

Objective: To adequately identify and prioritize stormwater management projects to include in the County's AUIR/5-year Plan and Budgeting process.

Purpose: To provide the Board County Commissioners with a general outline of the ongoing Project Planning and Prioritization Process.

Considerations: The Stormwater Management Project Planning Process identifies and prioritizes potential projects for advancement into the AUIR/5-year Plan and annual Stormwater Management budget process. Typically, project feasibility studies are completed first. Studies are then being used to rank the projects for eventual funding and construction within the County's AUIR/5-year Plan and annual budget process. The feasibility studies will also provide staff with better project cost estimates for preparing budget requests. Input from external stakeholders will also be used to recommend projects for the AUIR/5-year Plan.

Plan Elements:

➤ **Potential Project Database**

Staff has developed a Comprehensive Stormwater Needs database that contains all potential future stormwater improvement projects. Projects are provided from three main sources: customer complaint database, staff knowledge and Planning Studies. This database is periodically updated to reflect new information as projects are implemented and sources provide new potential projects.

➤ **Project Profiles**

Staff selects potential projects from the database to gather detailed information to develop Project Profiles. Project Profiles are based by first determining the Objective of the Project, Benefit Area and Preliminary Conceptual Cost. Once those three basic components are defined, staff can provide information regarding affected acreage and population, per parcel cost, per acre cost, per capita cost, and per \$1,000 of assessed value cost. A narrative explaining the objective, purpose and needs of the project is also provided in the Project Profile.

➤ **Scoring Committee and Project Ranking Criteria**

A Stormwater Planning Process Committee has been established to review and score the Project Profiles. The seven (7) committee members, all county staff, come from different departments such as Stormwater, Comprehensive and Floodplain Management Planning, Engineering, Road Maintenance, and Pollution Control. Scoring is based on four major aspects: Health and Safety, Project Feasibility, Project Support, and Environmental Benefits.

➤ **Feasibility Studies**

Top ranked Project Profiles are selected for Feasibility Studies which provide more detailed and secured information regarding the project's cost, life, and stages. Project Profiles are updated with information from the feasibility studies.

The Scoring Committee has ranked ten (10) projects; some current and ongoing, and some conceptual projects. The ranking and evaluation process and input from the committee has been deemed extremely useful and valid. As such, ranking information is considered and utilized in this current AUIR/5-year Plan.

Attachment “B”

SYSTEM INVENTORY AND GIS DATABASE REPORT

Objective: To maintain a complete and current inventory of all existing county maintained stormwater and surface water management system assets.

Purpose: To provide the Board of County Commissioners with an update on progress made to date with establishment of the Stormwater Management System Inventory GIS Database

Considerations: For the past several years staff has been identifying existing stormwater management assets and sequentially building the stormwater management system geodatabase. The database currently includes the main canals and ditches, water level, and flow control structures and arterial roadway drainage infrastructure. Several hundred miles of collector and minor roadway swales, culverts and inlets are yet to be added to the dataset. They represent a majority of stormwater assets maintained on a day to day basis. All the water control structures are field verified and have conditional ratings. Field verification is ongoing for the arterial roadway stormwater management infrastructure.

Current data collection is being coordinated with Operation and Maintenance staff (O&M) activities to the greatest extent possible. When data collection technicians log entries associated with geodatabase objects in advance of a scheduled O&M activity, subsequent O&M activity entries can then be connected to geodatabase objects. In this way, a work history for each asset is created that is now associated to geodatabase objects. Creating a work history for each asset can result in high level reporting such as required by the state for the County National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4) Permit, Permit # FLR04E037. Some examples are pesticide sprayers accounting for chemical usage including location and acreage and sediment removal tied to asset type (inlet, culvert, and swale).

Other information being collected and added to the database includes information collected during the right-of-way permitting process, roadside assets in neighborhoods, roadside improvements completed as part of neighborhood stormwater improvements, remedial work or existing condition assessments (surveys), roadway outfalls to canals or tidal waters, secondary county roadway swales, culverts, inlets and manholes including all Golden Gate Estates roads and the urban county roads, and outfalls from private developments discharging into the County maintained system.

The existing Stormwater Management System Inventory GIS Database is substantial, functioning, and has become an important tool used daily by O&M staff as well as Stormwater Planning staff. All the data, maps and asset tables produced for this AUIR were generated using the database. The database is being used to capture information that is essential for mandated reporting to the state as part of the County’s NPDES MS4 Permit requirements, as well as reporting for the County’s participation in the National Flood Insurance Program Community Rating System (NFIP CRS).

Attachment “C”

Table 2 - Current Collier County Canal System

	Section ID	Facility Name	Length (MI)
1	D2C-01-C0005	Napa Ditch	0.132
2	D2C-01-C0035	Pine Ridge RD	0.246
3	D2C-01-C0025	Pine Ridge RD	0.136
4	D2C-01-C0015	Pine Ridge RD	0.125
5	ARN-16-C0005	Four Seasons Lateral Ditches	0.051
6	ARN-21-C0015	Four Seasons Lateral Ditches	0.054
7	ARN-13-C0005	Four Seasons Lateral Ditches	0.049
8	MGG-20-C0005	Bolitt Canal	0.681
9	MGG-20-C0035		0.07
10	LCB-01-C0125	Davis Blvd. ditch	0.037
11	HEC-07-C0015	Roost Rd Ditch	0.248
12	LMB-15-C0005	Lely Manor Canal	0.136
13	LMB-15-C0015	Lely Manor Canal	0.013
14	BRC-00-C0275	SR 29 Canal (Barron River)	1.305
15	BRC-00-C0235	SR 29 Canal (Barron River)	1.611
16	BRC-00-C0145	SR 29 Canal (Barron River)	1.222
17	BRC-00-C0009	SR 29 Canal (Barron River)	0.798
18	D2C-08-C0045	Vanderbilt Beach RD	0.075
19	ARN-15-C0005	Four Seasons Lateral Ditches	0.052
20	ARN-18-C0005	Four Seasons Lateral Ditches	0.052
21	GRE-04-C0005	Poinciana Village (Estuary Canal)	0.251
22	ARN-05-C0005	Four Seasons Lateral Ditches	0.048
23	ARN-20-C0005	Four Seasons Lateral Ditches	0.057
24	ARN-22-C0005	Four Seasons Lateral Ditches	0.042
25	ARN-02-C0025	Four Seasons Perimeter Ditch	0.187
26	LMB-00-C0025	Lely Manor Outfall Canal	0.823
27	OSB-01-C0055	County Line Rd Canal	0.935
28	GRE-00-C0009	Gordon River Extension	0.003
29	OSB-01-C0065	County Line Rd Canal	0.962
30	LCB-01-C0115	Davis Blvd. ditch	0.117
31	MGG-12-C0035	Fairgrounds Canal	0.058
32	LCB-00-C0155	Santa Barbara Ext Canal	0.115
33	LCB-00-C0165	Santa Barbara Ext Canal	0.133
34	LCB-00-C0175	Santa Barbara Ext Canal	0.106
35	LCB-00-C0185	Santa Barbara Ext Canal	0.22
36	LMB-00-C0005	Lely Manor Outfall South Section	0.73
37	LCB-00-C0065	Lely Main Canal East-West	0.341
38	PRC-00-C0045	Pine Ridge 1 Canal	0.128
39	PRC-00-C0055	Pine Ridge 1 Canal	0.108

40	D2C-08-C0035	Vanderbilt Beach RD	0.102
41	OSB-01-C0075	County Line Rd Canal	0.98
42	CCB-05-C0019	Corkscrew Sanctuary Ditch	0.034
43	OSB-01-C0045	County Line Rd Canal	1.003
44	CCB-03-C0005		0.373
45	LMB-00-C0009	Lely Manor Outfall South Section	0.037
46	HEC-07-C0025	Roost Rd Ditch	0.157
47	LMB-07-C0025	Treviso Canal East	0.856
48	LCB-01-C0035	Riviera Golf Estates Ditch	0.05
49	LMB-06-C0011	Lely Manor Canal	0.151
50	LMB-05-C0065	Naples Manor Ditches	0.233
51	LMB-05-C0075	Naples Manor Ditches	0.263
52	LMB-03-C0007	Naples Manor Ditches	0.05
53	LMB-06-C0005	Lely Manor Canal	0.063
54	MCB-15-C0045	Lake Park BLVD	0.021
55	CCB-05-C0025	Corkscrew Sanctuary Ditch	0.073
56	ARN-13-C0015	Four Seasons Lateral Ditches	0.052
57	ARN-06-C0005	Four Seasons Lateral Ditches	0.054
58	ARN-07-C0015	Four Seasons Lateral Ditches	0.057
59	ARN-07-C0005	Four Seasons Lateral Ditches	0.053
60	ARN-22-C0015	Four Seasons Lateral Ditches	0.039
61	ARN-02-C0005	Four Seasons Perimeter Ditch	0.034
62	BRC-00-C0025	SR 29 Canal (Barron River)	0.326
63	LCB-02-C0005	Hawaii Blvd Ditches	0.062
64	LCB-00-C0045	Lely Main Canal East-West	0.11
65	BRN-01-C0015	Immokalee Airport Perimeter Canal	0.731
66	UIB-00-C0005	Immokalee Main Canal	0.72
67	CRB-05-C0015	Cypress Way East Ditch	0.016
68	CRB-05-C0005	Cypress Way East Ditch	0.229
69	ARN-02-C0029	Four Seasons Perimeter Ditch	0.015
70	ARN-09-C0035	Four Seasons Lateral Ditches	0.023
71	BRC-00-C0105	SR 29 Canal (Barron River)	0.043
72	MGG-09-C0005	C-2 North/South canal	0.129
73	BRC-00-C0265	SR 29 Canal (Barron River)	0.496
74	CCB-05-C0021	Corkscrew Sanctuary Ditch	0.174
75	CCB-05-C0011	Corkscrew Sanctuary Ditch	0.056
76	GRE-01-C0035	Goodlette Rd. Pine Ridge to GG Blvd.	0.061
77	HCB-07-C0005	Guilford RD	0.426
78	HCB-02-C0005	Lake Avalon Outfall	0.076
79	MCB-07-C0015		0.24
80	HCB-00-C0115	Haldeman Creek	0.286
81	CCB-07-C0005	Corkscrew Sanctuary Ditch	0.952

82	ARN-09-C0045	Four Seasons Lateral Ditches	0.047
83	HCB-09-C0055		0.259
84	LCB-01-C0005	Lely Main Canal North-South	0.078
85	LCB-00-C0041	Lely Main Canal East-West	0.004
86	MGG-18-C0035	Transfer Station Ditch	0.285
87	MGG-04-C0035	Coronado Canal	0.003
88	GCB-05-C0005	Sunset Canal	0.184
89	GCB-06-C0005	Sunshine Canal	0.364
90	GCB-06-C0015	Sunshine Canal	0.381
91	GCB-00-C0035	Sunrise Canal	0.73
92	GCB-07-C0005	Serenade Canal	0.12
93	MGG-14-C0055	Industrial BLVD	0.014
94	MGG-14-C0045	Industrial BLVD	0.025
95	MGG-14-C0025	Industrial BLVD	0.015
96	MGG-14-C0035	Industrial BLVD	0.008
97	LCB-01-C0105	Davis Blvd. ditch	0.164
98	MCB-15-C0019	Lake Park BLVD	0.023
99	MCB-15-C0015	Lake Park BLVD	0.018
100	MCB-15-C0003	Lake Park BLVD	0.116
101	BRC-00-C0185	SR 29 Canal (Barron River)	0.203
102	BRC-00-C0285	SR 29 Canal (Barron River)	0.203
103	D2C-02-C0005	Oaks/ Vanderbilt Canal	0.083
104	OSB-01-C0085	County Line Rd Canal	0.838
105	BRC-00-C0055	SR 29 Canal (Barron River)	0.028
106	BRN-00-C0115	SR 29 Canal (Barron River)	0.42
107	BRN-00-C0105	SR 29 Canal (Barron River)	0.311
108	LCB-15-C0005	Naples Mobile Estates Ditch	0.004
109	LCB-15-C0015	Naples Mobile Estates Ditch	0.003
110	WBB-00-C0065	Old US41 Swales	0.279
111	WBB-01-C0015	Wiggins Pass Outfall	0.014
112	PRC-00-C0015	Pine Ridge 1 Canal	0.145
113	PRC-00-C0035	Pine Ridge 1 Canal	0.041
114	WBC-00-C0025	Coco West Outfall	0.145
115	BRN-00-C0005	SR 29 Canal (Barron River)	0.019
116	BRC-00-C0300	SR 29 Canal (Barron River)	0.019
117	BRC-00-C0115	SR 29 Canal (Barron River)	0.036
118	BRC-00-C0245	SR 29 Canal (Barron River)	0.474
119	LCB-00-C0055	Lely Main Canal East-West	0.25
120	MGG-15-C0035	Palm Spring Outfall Ditch	0.187
121	GRE-28-C0005	Pine Ridge I.P. Ditches	0.056
122	GRE-30-C0005	Pine Ridge I.P. Ditches	0.028
123	GRE-29-C0005	Pine Ridge I.P. Ditches	0.039

124	GRE-37-C0005	Pine Ridge I.P. Ditches	0.03
125	GRE-15-C0015	Pine Ridge I.P. Ditches	0.106
126	GRE-03-C0005	Wilderness Ditch	0.489
127	GRE-02-C0025		0.091
128	GRE-01-C0015	Goodlette-Frank RD N	0.016
129	WBB-00-C0003	Wiggins Bay	0.365
130	WBB-01-C0005	Wiggins Bay	0.269
131	BRN-00-C0085	SR 29 Canal (Barron River)	1.812
132	BRN-00-C0065	SR 29 Canal (Barron River)	0.773
133	S1S-05-C0005	Naples Reserve BLVD	0.36
134	BRN-00-C0095	SR 29 Canal (Barron River)	2.078
135	LCB-00-C0073	Naples Mobile Estates Ditch	0.019
136	HCB-00-C0125	Haldeman Creek	0.12
137	HEC-07-C0045	Roost Rd Ditch	0.149
138	BRC-00-C0305	SR 29 Canal (Barron River)	1.895
139	BRC-00-C0247	SR 29 Canal (Barron River)	1.388
155	D2C-06-C0025	Oaks/ Vanderbilt Canal	0.243
156	D2C-06-C0005	Oaks/ Vanderbilt Canal	1.372
157	MGG-09-C0015	C-2 North/South canal	0.123
158	HEC-07-C0005	Roost Rd Ditch	0.175
159	BRC-00-C0215	SR 29 Canal (Barron River)	1.075
160	BRC-00-C0195	SR 29 Canal (Barron River)	0.256
161	BRC-00-C0165	SR 29 Canal (Barron River)	2.354
162	D2C-04-C0005	Livingston Woods Outfall	0.917
163	MGG-10-C0025	C-2 East/West Canal	0.238
164	MGG-16-C0015		0.024
165	RCB-04-C0005		0.306
166	S1S-04-C0035	Deep Canal	0.508
167	LMB-00-C0035	Naples Manor North Canal	0.1
168	MGG-16-C0045	Radio Rd outfall	0.557
169	CCB-01-C0035	Twin Eagles Ditch	0.119
170	CCB-02-C0005		1.02
171	CRB-05-S0035	Cypress Way E	0.004
187	BRN-01-C0035	Immokalee Airport Perimeter Canal	2.676
188	BRN-01-C0025	Immokalee Airport Perimeter Canal	0.15
189	MGG-19-C0015	Boltt Canal	0.729
190	ARN-01-C0005	Four Seasons Perimeter Ditch	0.386
191	ARN-03-C0005	Four Seasons Lateral Ditches	0.051
192	MGG-16-C0035	Radio Rd outfall	0.028
193	BRN-00-C0025	SR 29 Canal (Barron River)	0.484
194	HCB-00-C0025	Haldeman Creek	0.006
195	LCB-00-C0195	Santa Barbara Ext Canal	0.008

196	CCB-05-C0013	Corkscrew Sanctuary Ditch	0.022
197	MGG-18-C0005	Transfer Station Ditch	0.307
198	D2C-08-C0025	Vanderbilt Beach RD	0.227
199	ARN-04-C0005	Four Seasons Lateral Ditches	0.055
200	ARN-01-C0015	Four Seasons Perimeter Ditch	0.521
201	LMB-14-C0005	Four Fountains Ditch	0.088
218	LMB-13-C0025	Naples Manor Ditches	0.018
219	LMB-13-C0035	Naples Manor Ditches	0.13
220	LMB-13-C0045	Naples Manor Ditches	0.069
221	LMB-00-C0071	Naples Manor North Canal	0.009
222	BRC-00-C0035	SR 29 Canal (Barron River)	0.172
223	LMB-20-C0005	Wingsouth West Ditch	0.343
224	MGG-15-C0025	Palm Springs Outfall	0.004
225	OSB-01-C0015	County Line Rd Canal	0.991
226	OSB-01-C0025	County Line Rd Canal	1.179
227	OSB-01-C0035	County Line Rd Canal	0.713
228	S1S-00-C0055	Throat Canal	0.449
229	D2C-06-C0035	Oaks/ Vanderbilt Canal	0.304
230	MGG-18-C0025	Transfer Station Ditch	0.126
231	MGG-17-C0015	Coconut Outfall Swale	0.203
232	GRE-01-C0025	Goodlette Rd. Pine Ridge to GG Blvd.	0.048
233	IDO-00-C0045	Horse Creek	0.028
234	PLM-00-C0045	Palm River Raven Way Ditch	0.365
235	EBC-00-C0005	Coco East Outfall	0.002
236	WBC-00-C0075	North Naples Water Treatment	0.004
237	WBC-00-C0085	North Naples Water Treatment	0.25
238	WBC-00-C0095	North Naples Water Treatment	0.139
239	WBC-00-C0105	North Naples Water Treatment	0.067
240	WBB-01-C0025	Wiggins Bay	0.018
241	GRE-00-C0025	Forest Lakes West Side	0.72
242	GRE-08-C0005	Forest Lakes South Side	0.392
243	MCB-17-C0015		0.121
244	LCB-01-C0165	Davis Blvd. ditch	0.094
245	LCB-01-C0145	Davis Blvd. ditch	0.016
246	CCB-05-C0017	Corkscrew Sanctuary Ditch	0.059
247	CRB-05-C0045	Cypress Way East Ditch	0.02
248	D2C-08-C0005	Vanderbilt Beach RD	0.232
249	GRE-08-C0015	Forest Lakes South Side	0.097
250	WBB-00-C0015	Tarpon Cove Canal	0.419
251	PLM-00-C0025	Palm River Canal	0.546
252	LCB-13-C0005	Lely Main Canal East-West	0.059
253	LMB-11-C0015	Saint Andrews Daycare Ditch	0.036

254	GRE-00-C0015	Gordon River Extension	1.001
255	LCB-01-C0081	Davis Blvd. ditch	0.071
256	LCB-01-C0045	Lely Canal Branch	0.005
257	IDO-00-C0025	Horse Creek	0.216
258	BRC-00-C0075	SR 29 Canal (Barron River)	0.249
259	LCB-11-C0005	Naples Mobile Estates Ditch	0.479
260	MGG-10-C0015	C-2 East/West Canal	0.239
261	BRC-00-C0135	SR 29 Canal (Barron River)	0.418
262	BRC-00-C0065	SR 29 Canal (Barron River)	0.025
263	BRC-00-C0085	SR 29 Canal (Barron River)	0.159
264	D2C-07-C0045		0.696
265	ARN-09-C0015	Four Seasons Lateral Ditches	0.019
266	ARN-09-C0005	Four Seasons Lateral Ditches	0.053
267	ARN-21-C0005	Four Seasons Lateral Ditches	0.049
268	LCB-01-C0107	Davis Blvd. ditch	0.315
269	LCB-01-C0095	Davis Blvd. ditch	0.221
270	PRC-00-C0005	Pine Ridge 1 Canal	0.399
271	LCB-01-C0135	Davis Blvd. ditch	0.023
272	MGG-09-C0035	C-2 North/South canal	0.743
273	ARN-12-C0035	Four Seasons Lateral Ditches	0.024
274	ARN-12-C0015	Four Seasons Lateral Ditches	0.046
275	ARN-16-C0015	Four Seasons Lateral Ditches	0.024
276	GRE-07-C0005		0.186
277	MGG-16-C0005		0.263
278	BRC-00-C0125	SR 29 Canal (Barron River)	0.05
279	LCB-01-C0159	Davis Blvd. ditch	0.124
280	GRE-01-C0055	Goodlette Rd. Pine Ridge to GG Blvd.	0.199
281	LCB-02-C0015	Hawaii Blvd Ditches	0.031
282	BRC-00-C0155	SR 29 Canal (Barron River)	0.15
283	BRN-00-C0125	SR 29 Canal (Barron River)	0.275
284	BRC-00-C0015	SR 29 Canal (Barron River)	1.114
285	D2C-08-C0015	Vanderbilt Beach RD	0.245
286	CSB-04-C0005		0.403
287	UIB-00-C0045	Immokalee Main Canal	0.95
288	HEC-07-C0035	Roost Rd Ditch	0.09
289	BRC-00-C0045	SR 29 Canal (Barron River)	0.048
290	HCB-00-C0015	Haldeman Creek	0.044
291	MGG-09-C0025	C-2 North/South canal	0.903
292	MGG-10-C0005	C-2 East/West Canal	0.122
293	LMB-03-C0055	Naples Manor Ditches	0.049
294	LMB-05-C0055	Naples Manor Ditches	0.15
295	LMB-03-C0025	Naples Manor Ditches	0.029

296	LCB-09-C0095	County Barn RD	0.106
297	LCB-09-C0085	County Barn RD	0.084
298	LCB-09-C0075	County Barn RD	0.009
299	MCB-15-C0039	Lake Park BLVD	0.033
300	GRE-01-C0045	Goodlette Rd. Pine Ridge to GG Blvd.	0.072
301	LCB-00-C0035	Lely Main Canal East-West	0.11
302	MGG-12-C0005	Fairgrounds Canal	1.622
303	GRE-00-C0035	Taylor Rd Canal	0.757
304	GRE-32-C0015	Pine Ridge I.P. Ditches	0.057
305	MGG-19-C0005	BolIt Canal	0.667
306	MGG-10-C0045	C-2 East/West Canal	1.22
307	WBC-01-C0005	West Branch Cocohatchee River	0.016
308	ARN-17-C0015	Four Seasons Lateral Ditches	0.025
309	ARN-18-C0015	Four Seasons Lateral Ditches	0.018
310	ARN-11-C0015	Four Seasons Lateral Ditches	0.023
311	ARN-14-C0015	Four Seasons Lateral Ditches	0.022
312	ARN-14-C0045	Four Seasons Lateral Ditches	0.018
313	MCB-17-C0035		0.085
314	ARN-14-C0005	Four Seasons Lateral Ditches	0.041
315	SPO-01-C0005	Riggs Rd	1.023
316	ARN-17-C0005	Four Seasons Lateral Ditches	0.05
317	ARN-12-C0045	Four Seasons Lateral Ditches	0.052
318	ARN-01-C0025	Four Seasons Perimeter Ditch	0.679
319	ARN-11-C0005	Four Seasons Lateral Ditches	0.051
320	ARN-12-C0005	Four Seasons Lateral Ditches	0.053
321	LMB-10-C0025	Naples Manor Perimeter Ditch	0.131
322	BRN-00-C0075	SR 29 Canal (Barron River)	2.476
323	LMB-03-C0005	Myrtle Cove East	0.476
324	CCB-01-C0025	Twin Eagles Ditch	1.099
325	MGG-15-C0015	Palm Springs Outfall	0.145
326	WBB-00-C0055	Old US41 Swales	0.144
327	WBB-00-C0045	Old US41 Swales	0.04
328	MGG-14-C0005	Industrial BLVD	0.05
329	GRE-23-C0005	Pine Ridge I.P. Ditches	0.034
330	GRE-33-C0005	Pine Ridge I.P. Ditches	0.057
331	GRE-31-C0005	Pine Ridge I.P. Ditches	0.011
332	GRE-21-C0005	Pine Ridge I.P. Ditches	0.105
333	GRE-32-C0005	Pine Ridge I.P. Ditches	0.275
334	GRE-22-C0005	Pine Ridge I.P. Ditches	0.175
335	GRE-22-C0015	Pine Ridge I.P. Ditches	0.028
336	GRE-13-C0015	Pine Ridge I.P. Ditches (Yahl Street Canal)	0.203
337	GRE-13-C0005	Pine Ridge I.P. Ditches (Yahl Street Canal)	0.04

338	GRE-12-C0045	Pine Ridge I.P. Ditches	0.312
339	GRE-11-C0005	Pine Ridge I.P. Ditches	0.031
340	MGG-04-C0025	Coronado Canal	0.094
341	LCB-17-C0005	Lely Main Canal North-South	0.02
342	C4C-00-C0045	Eagle Creek Canal	0.156
343	PRC-00-C0025	Pine Ridge 1 Canal	0.015
344	WBC-00-C0021	Coco West Outfall	0.004
345	LMB-20-C0025	Wing South	0.043
346	LMB-16-C0015	Wing South	0.013
347	LMB-17-C0005		0.006
348	BRC-00-C0161	SR 29 Canal (Barron River)	0.096
349	BRC-00-C0205	SR 29 Canal (Barron River)	0.121
350	BRC-00-C0225	SR 29 Canal (Barron River)	0.293
351	BRC-00-C0175	SR 29 Canal (Barron River)	0.018
352	LCB-01-C0085	Davis Blvd. ditch	0.025
353	UIB-00-C0013		0.03
354	UIB-00-C0019		0.022
355	UIB-00-C0011		0.013
356	UIB-00-C0045	Madison Ave Ditch	0.624
373	PRC-02-C0015	Carica Road Ditch	0.004
374	PRC-02-C0025	Carica Road Ditch	0.163
375	PRC-02-C0045	Carica Road Ditch	0.004
376	CCB-07-C0003	Corkscrew Sanctuary Ditch	0.083
377	GRE-01-C0115	Goodlette-Frank Rd N	0.452
378	GRE-01-C0095	Goodlette-Frank Rd N	0.429
379	GRE-01-C0105	Goodlette-Frank Rd N	0.06
380	GRE-01-C0075	Goodlette-Frank Rd N	0.134
381	GRE-01-C0085	Goodlette-Frank Rd N	0.263
382	GRE-01-C0135	Goodlette-Frank Rd N	0.006
383	GRE-01-C0125	Goodlette-Frank Rd N	0.266
384	GRE-01-C0145	Goodlette-Frank Rd N	0.112
385	GRE-01-C0065	Goodlette Rd. Pine Ridge to GG Blvd.	0.298
386	D1C-00-C0035	Harvey Canal	0.848
387	D1C-00-C0025	Lambert Canal	0.012
388	D1C-00-C0045	Harvey Canal	2.163
389	MGG-14-C0105	Industrial BLVD	0.033
390	MGG-14-C0115	Industrial BLVD	0.017
391	MGG-14-C0065	Industrial BLVD	0.015
392	MGG-14-C0015	Industrial BLVD	0.032
393	GCB-04-C0005	Lucerne Canal	0.212
394	GRE-19-C0005	Taylor RD	0.004
395	GRE-11-C0015	Pine Ridge I.P. Ditches	0.002

396	MGG-01-C0005	Sunflower Canal	0.303
397	MGG-14-C0075	Industrial BLVD	0.104
398	MGG-14-C0085	Industrial BLVD	0.118
399	MGG-14-C0095	Industrial BLVD	0.027
400	LMB-00-C0085	Naples Manor North Canal	0.588
401	LMB-00-C0045	Naples Manor North Canal	0.349
402	LMB-01-C0045	Naples Manor Perimeter Ditch	0.277
403	LMB-00-C0105	Naples Manor North Canal	0.128
404	LMB-20-C0015	Wingsouth West Ditch	0.568
405	MCB-12-C0005	Trail Acres	0.394
406	MCB-12-C0015	Trail Acres	0.337
407	LMB-00-C0065	Naples Manor North Canal	0.043
408	UIB-03-C0025	Urban Immokalee Canals	0.036
409	LCB-09-C0125	County Barn RD	0.077
410	LCB-09-C0115	County Barn RD	0.068
411	LCB-09-C0105	County Barn RD	0.103
412	LCB-16-C0005		0.111
413	IWO-01-C0005	Imperial/FPL Ditch	0.496
414	GCB-00-C0025	Sunrise Canal	0.126
415	PSB-00-C0005	Palm Street Outfall	0.029
416	UIB-00-C0045	Madison Ave Ditch	0.526
417	UIB-00-C0035	Immokalee Main Canal	0.312
418	LMB-15-C0009	Lely Manor Canal	0.022
419	LCB-01-C0155	Davis Blvd. ditch	0.046
420	HEC-07-C0019	Roost Rd Ditch	0.073
421	BRC-00-C0005	SR 29 Canal (Barron River)	0.293
422	BRC-00-C0217	SR 29 Canal (Barron River)	0.059
423	BRC-00-C0163	SR 29 Canal (Barron River)	0.692
424	LCB-00-C0053	Lely Main Canal East-West	0.057
425	RCB-03-C0005	North Rd Ditch	0.019
426	BRN-01-C0045	Immokalee Airport Perimeter Canal	0.419
427	BRN-00-C0055	SR 29 Canal (Barron River)	0.709
428	BRN-00-C0045	SR 29 Canal (Barron River)	0.71
429	BRC-00-C0325	SR 29 Canal (Barron River)	0.139
430	D2C-03-C0005	Wyndemere south outfall	0.812
431	UIB-03-C0015	Urban Immokalee Canals	0.109
432	RCB-02-C0015	Gail/Hazel Ditches	0.245
433	RCB-03-C0035	North Rd Ditch	0.027
434	RCB-03-C0005	North Rd Ditch	0.131
435	RCB-02-C0055	Gail/Hazel Ditches	0.013
436	RCB-02-C0065	Gail/Hazel Ditches	0.022
140	ARN-06-C0015	Four Seasons Lateral Ditches	0.054

141	D1C-00-C0055	Harvey Canal	0.003
142	LMB-07-C0035	Treviso Canal West	0.499
143	MGG-10-C0035	C-2 East/West Canal	0.239
144	PLM-00-C0015	Palm River Canal	0.098
145	GRE-04-C0015	Poinciana Village (Coach House Lane)	0.26
146	GRE-05-C0005	Poinciana Village	0.729
147	GRE-04-C0025	Poinciana Village	0.976
148	D2C-02-C0015	Oaks/ Vanderbilt Canal	0.895
149	BRN-00-C0035	SR 29 Canal (Barron River)	0.163
150	BRN-00-C0015	SR 29 Canal (Barron River)	0.947
151	BRC-00-C0295	SR 29 Canal (Barron River)	0.911
152	GRE-00-C0013	Gordon River Extension	0.175
153	GRE-00-C0011	Gordon River Extension	0.438
154	WBC-00-C0115	Victoria Park Outfall West End	0.226
172	CRB-05-C0025	Cypress Way East Ditch	0.012
173	MGG-12-C0025	Fairgrounds Canal	0.061
174	MGG-12-C0015	Fairgrounds Canal	0.237
175	LMB-01-C0015	Myrtle Cove West	0.062
176	IWO-00-C0015	Imperial/FPL Ditch	0.037
177	WBB-00-C0045	Old US41 Swales	0.272
178	WBB-00-C0035	Old US41 Swales	0.091
179	WBB-00-C0025	Tarpon Cove Canal	0.262
180	GRE-00-C0019	Forest Lakes West Side	0.296
181	IWO-00-C0005	Imperial/FPL Ditch	0.005
182	IDO-00-C0035	Horse Creek	0.027
183	GRE-00-C0017	Forest Lakes West Side	0.059
184	LMB-01-C0005	Myrtle Cove West	0.471
185	ARN-08-C0015	Four Seasons Lateral Ditches	0.057
186	ARN-02-C0015	Four Seasons Perimeter Ditch	0.002
202	LCB-03-C0005	Boca Ciega Ditch	0.056
203	LMB-11-C0005	Saint Andrews Daycare Ditch	0.226
204	ARN-02-C0035	Four Seasons Perimeter Ditch	1.009
205	LCB-00-C0025	Lely Main Canal North-South	0.322
206	FKC-04-C0005	Desoto Ditch	0.81
207	FKC-04-C0015	Desoto Ditch	0.215
208	LCB-16-C0015		0.229
209	GRE-10-C0035	Pine Ridge I.P. Ditches	0.006
210	GRE-20-C0005	Pine Ridge I.P. Ditches	0.112
211	GRE-23-C0015	Pine Ridge I.P. Ditches	0.253
212	GRE-28-C0015	Pine Ridge I.P. Ditches	0.02
213	MGG-18-C0045	Transfer Station Ditch	0.009
214	BRC-00-C0095	SR 29 Canal (Barron River)	0.036

215	WBB-00-C0075	Old US41 Swales	0.461
216	CCB-01-C0045	Twin Eagles Ditch	0.873
217	UIB-00-C0025	Immokalee Main Canal	0.202
357	UIB-00-C0055	Madison Ave Ditch	0.369
358	UIB-00-C0015		0.029
359	LCB-09-C0065	County Barn RD	0.083
360	LCB-09-C0055	County Barn RD	0.073
361	LCB-09-C0045	County Barn RD	0.081
362	HCB-01-C0005	Lake Kelly Outfall	0.565
363	LCB-01-C0091	Davis Blvd. ditch	0.141
364	GRE-01-C0011	Goodlette-Frank RD N	0.008
365	GRE-02-C0035		0.026
366	PRC-00-C0125	Goodlette Rd. VBR to Pine Ridge	0.273
367	PRC-00-C0105	Goodlette Rd. VBR to Pine Ridge	0.18
368	PRC-00-C0115	Goodlette Rd. VBR to Pine Ridge	0.738
369	PRC-02-C0035	Carica Road Ditch	0.066
370	PRC-01-C0025	Hickory Road Ditch	0.433
371	PRC-01-C0015	Hickory Road Ditch	0.01
372	PRC-02-C0005	Carica Road Ditch	0.089
437	RCB-02-C0035	Gail/Hazel Ditches	0.099
438	RCB-03-C0005	North Rd Ditch	0.164
439	HCB-02-C0045	United Telephone Ditch	0.045
440	HCB-01-C0025	Lake Kelly Outfall	0.177
441	RCB-02-C0075	Gail/Hazel Ditches	0.175
442	RCB-03-C0025	North Rd Ditch	0.345
443	RCB-03-C0015	North Rd Ditch	0.222
444	BRC-00-C0319	SR 29 Canal (Barron River)	1.01
445	BRC-00-C0149	SR 29 Canal (Barron River)	0.881
446	RCB-06-C0005	Flamingo/Bluebird ditch	0.248
447	RCB-02-C0005	Gail/Hazel Ditches	0.025
448	RCB-02-C0045	Gail/Hazel Ditches	0.118
449	RCB-02-C0025	Gail/Hazel Ditches	0.263
450	RCB-05-C0015	Estey/San Remo ditch	0.184
451	RCB-05-C0005	Estey/San Remo ditch	0.049
452	MGG-15-C0045	Palm Springs Outfall	0.495
453	LMB-06-C0025	Lely Manor Canal	0.261
454	LMB-03-C0035	Naples Manor Ditches	0.233
455	LMB-03-C0045	Naples Manor Ditches	0.14
456	LCB-02-C0025	Boca Ciega Ditch	0.452
457	UIB-00-C0035	Immokalee Main Canal	0.318
458	LMB-00-C0095	Naples Manor North Canal	0.074
459	MCB-15-C0025	Lake Park BLVD	0.055

460	LCB-07-C0005	Hawaii Blvd Ditches	0.176
461	LCB-01-C0015	Riviera Powerline Canal	0.34
462	LCB-05-C0005	Hawaii Blvd Ditches	0.183
463	LCB-04-C0005	Saint Peters Swales	0.194
464	LCB-10-C0005	Riviera Golf Estates Ditch	0.935
465	LCB-19-C0005		0.107
466	GTB-05-C0009	Manorca Street Swale	0.05
467	GTB-05-C0015	Manorca Street Swale	0.029
468	GTB-05-C0005		0.099
469	LCB-09-C0035	County Barn RD	0.097
470	LCB-09-C0025	County Barn RD	0.321
471	LCB-09-C0015	County Barn RD	0.032
472	LCB-09-C0005	County Barn RD	0.162
473	LMB-16-C0005	Wing South	0.974
474	LMB-18-C0005	Wing South	0.43
475	LMB-05-C0045	Naples Manor Ditches	0.045
476	WPO-00-C0015	Haldeman Glades Outfall	0.292
477	HCB-00-C0035	Haldeman Creek	0.043
478	HCB-00-C0045	Haldeman Creek	0.212
479	LCB-01-C0025	Riviera Powerline Canal	0.626
480	LCB-08-C0005	Colony Pines Ditch	0.176
481	HCB-00-C0005	Haldeman Creek	0.542
482	LMB-01-C0025	Naples Manor Perimeter Ditch	0.387
483	LMB-01-C0035	Naples Manor Perimeter Ditch	0.015
484	MCB-15-C0005	Lake Park BLVD	0.022
485	MCB-15-C0035	Lake Park BLVD	0.023
486	LMB-06-C0015	Lely Manor Canal	0.233
487	BRC-00-C0231	SR 29 Canal (Barron River)	0.443
488	BRC-00-C0219	SR 29 Canal (Barron River)	0.831
489	BRC-00-C0249	SR 29 Canal (Barron River)	0.593
490	BRC-00-C0289	SR 29 Canal (Barron River)	0.156
491	GRE-24-C0005	Pine Ridge I.P. Ditches	0.019
492	GRE-24-C0015	Pine Ridge I.P. Ditches	0.019
493	GRE-24-C0025	Pine Ridge I.P. Ditches	0.013
494	GRE-28-C0025	Pine Ridge I.P. Ditches	0.047
495	GRE-18-C0005	Pine Ridge I.P. Ditches	0.054
496	GRE-12-C0025	Pine Ridge I.P. Ditches	0.005
497	GRE-12-C0035	Pine Ridge I.P. Ditches	0.308
498	GRE-14-C0005	Pine Ridge I.P. Ditches	0.049
499	MGG-04-C0045	Coronado Canal	0.481
500	GRE-10-C0045		0.003
501	D1C-00-C0005	Lambert Canal	0.124

502	GCB-01-C0005	Neptune Canal	0.593
503	GCB-03-C0005	Tahiti Canal	0.194
504	GCB-02-C0005	Hunter Canal	0.551
505	GCB-02-C0015	Hunter Canal	0.342
506	GRE-10-C0005	Pine Ridge I.P. Ditches	0.055
507	GRE-09-C0005	Pine Ridge I.P. Ditches	0.069
508	GRE-12-C0005	Pine Ridge I.P. Ditches	0.005
509	GRE-17-C0005	Pine Ridge I.P. Ditches	0.697
510	GRE-10-C0015	Pine Ridge I.P. Ditches	0.133
511	GRE-12-C0015	Pine Ridge I.P. Ditches	0.067
512	GRE-16-C0005	Pine Ridge I.P. Ditches	0.004
513	GRE-15-C0005	Pine Ridge I.P. Ditches	0.189
514	MGG-04-C0025	Coronado Canal	0.476
515	MGG-06-C0005	Coronado Canal	0.129
516	MGG-04-C0015	Santa Barbara Canal	0.19
517	MGG-05-C0005	Ibis Canal	0.199
518	MGG-02-C0025	Tropicana Canal	0.003
519	MGG-02-C0005	Shell Canal	0.029
520	MGG-02-C0015	Tropicana Canal	0.192
521	MGG-02-C0035	Tropicana Canal	0.997
522	MGG-02-C0019	Shell Canal	0.136
523	MGG-03-C0005	Sunfish Canal	0.308
524	CRB-06-C0015	Encore Way Outfall	0.102
525	IDO-00-C0009	Horse Creek	0.212
526	HCB-01-C0015	Lake Kelly Outfall	0.156
527	S1S-04-C0035	Deep Canal	0.02
528	S1S-04-C0035	Deep Canal	0.004
529	BRC-00-C0263	SR 29 Canal (Barron River)	0.154
530	BRC-00-C0291	SR 29 Canal (Barron River)	0.125
531	BRC-00-C0297	SR 29 Canal (Barron River)	0.136
532	BRC-00-C0299	SR 29 Canal (Barron River)	0.019
533	BRC-00-C0315	SR 29 Canal (Barron River)	0.442
534	WBB-00-C0049	Old US41 Swales	0.033
535	C4C-00-C0039	Eagle Creek Canal	0.119
536	BRC-00-C0255	SR 29 Canal (Barron River)	0.489
537	LCB-01-C0013	Riviera Powerline Canal	0.018
TOTAL			143.18

Table based on current Collier County GIS Database

Table 3: Existing Collier County Stormwater Control Structures

	Structure ID	Facility Name	Equipment Type	2012 Condition Report	2019 Condition Draft Report
1	ARN-02-S0110	Four Seasons Outfall	Weir - Fixed Stage	C2	C2
2	ARN-02-S0120	Four Seasons	Weir - Fixed Stage	C2	C3
3	ARN-19-S0100	Victoria Park Pump Station	Pump Station		C3
4	ARS-01-S0100	Hawks Ridge Pump Station	Pump Station		C2
5	BRN-00-S0110	Sunni land	Weir - Slide Gate	C1	C1
6	C4C-00-S0110	Eagle Creek	Weir - Slide Gate	C2	C1
7	CRB-06-S0150		Weir - Fixed Stage		TBD
8	D1C-00-S0120	Harvey #1	Weir - Slide Gate	C2	C2
9	D1C-00-S0150	Harvey #2	Weir - Slide Gate	C2	C1
10	D1C-01-S0102	VBR Weir	Weir - Fixed Stage	C1	C1
11	D2C-08-S0110	Island walk Inflow	Weir - Fixed Stage	C1	C2
12	EBC-00-S0110	Coco East	Weir- AMIL Gate	C2	C3
13	GRE-00-S0100	Gordon River	Weir- AMIL Gate	C2	C3
14	GRE-00-S0124	Gordon River Extension	Weir - Fixed Stage	TBD	TBD
15	GRE-01-S0480	Goodlette Road Canal #1	Weir - Fixed Stage	C3	C3
16	GRE-01-S0510	Goodlette Road Canal #2	Weir - Fixed Stage	C1	C3
17	GRE-03-S0100	Freedom Park Overflow (Bypass) Weir	Weir - Fixed Stage	C1	C1
18	GRE-04-S0110	Poinciana	Weir - Flashboard	TBD	TBD
19	GRE-36-S0100	FP Spreader Berm	Weir - Fixed Stage	TBD	C1
20	GRE-36-S0120	FP Wetlands Weir	Weir - Fixed Stage	C1	C3
21	GRE-36-S0240	FP Waterfall	Weir - Fixed Stage	TBD	TBD
22	GRE-36-S0280	Freedom Park Goodlette Rd. Pump Station	Pump Station		C1
23	GRE-39-S0100	West Lake Outfall	Weir - Fixed Stage	C1	C3
24	GRE-41-S0130	Twin Lakes Outfall	Weir - Fixed Stage	C1	C2
25	GRE-42-S0130	Freedom Park Gordon River Pump Station	Pump Station		C1
26	GRE-44-S0140	Sperling Lake Outfall	Weir - Fixed Stage	C1	C1
27	GTB-00-S0100	Tide-Flex and Flap Gates	Tide Valve - Flap Gate	C2	C3
28	GTB-04-S0110	Gateway Triangle	Weir - Fixed Stage	C2	C2
29	GTB-04-S0120		Weir - Fixed Stage		
30	GTB-13-S0170	Gateway Triangle Pump Station	Pump Station		C2
31	HCB-00-S0144	Haldeman Creek	Weir - Crest Gate		C1
32	HCB-00-S0200	Lakewood County Club Weir	Weir - Flashboard	C1	C1
33	HCB-00-S0220	Lely Branch Splitter	Weir - Slide Gate	TBD	C1

34	HCB-01-S0100	Lake Kelly	Weir - Fixed Stage	C1	C3
35	HCB-02-S0106	Lake Avalon	Weir - Fixed Stage	C2	C3
36	HEC-03-S0100	Henderson #3	Weir - Slide Gate		C2
37	HEC-04-S0100	Henderson #4	Weir - Slide Gate	TBD	TBD
38	HEC-05-S0100	Henderson #5	Weir - Slide Gate	TBD	TBD
39	LCB-00-S0122	Doral Circle	Weir - Slide Gate	C1	C1
40	LCB-00-S0150	Royal Wood	Weir - Slide Gate	C1	C1
41	LCB-00-S0190	Santa Barbara #1	Weir - Slide Gate	C1	C1
42	LCB-00-S0210	Santa Barbara #2	Weir - Slide Gate	C1	C1
43	LCB-00-S0230	Santa Barbara #3	Weir - Slide Gate	C1	C2
44	LCB-01-S0106	Lely Branch Canal	Weir - Slide Gate		C1
45	LCB-01-S0140	Crown Pointe	Weir - Slide Gate	C2	C1
46	LCB-01-S0174	Davis Blvd	Weir - Slide Gate	TBD	TBD
47	LCB-09-S0400	County Barn East	Weir - Slide Gate		TBD
48	LCB-09-S0446	Cope Lane Pond	Weir - Slide Gate		TBD
49	LCB-15-S0100	Rattlesnake Rd. Weir	Weir - Fixed Stage	C1	C1
50	LCB-16-S0290		Weir - Slide Gate		TBD
51	LCB-20-S0220	Whitaker Rd Ditch Block (West)	Weir - Fixed Stage	TBD	TBD
52	LCB-20-S0230	Whitaker Rd Weir	Weir - Slide Gate	TBD	C1
53	LMB-00-S0100	Manor South	Weir - Fixed Stage	C1	TBD
54	LMB-00-S0120	Manor North	Weir - Fixed Stage	C1	C1
55	LMB-00-S0150	Warren Street Weir	Weir - Slide Gate	TBD	TBD
56	LMB-07-S0100	Lely Wetland Pump Station	Pump Station		C1
57	LMB-15-S0100	R.H. Slough Weir Naples Manor	Weir - Fixed Stage		TBD
58	LMB-15-S0100	<Null>	Spreader Waterway		TBD
59	LMB-16-S0120	Wing South #2	Weir - Slide Gate		C1
60	LMB-16-S0140	Wing South #1	Weir - Slide Gate		C1
61	LMB-17-S0300	Wing South West	Weir - Slide Gate		C1
62	MGG-12-S0120	Fairgrounds	Weir - Fixed Stage	TBD	C1
63	MGG-16-S0140	Radio Rd.	Weir - Fixed Stage	C1	C2
64	MGG-20-S0060		Weir - Flashboard		TBD
65	PLM-00-S0100	Palm River Weir	Weir - Flashboard	C2	C2
66	PRC-00-S0110	Pine Ridge 1	Weir- AMIL Gate	C4	C1
67	RCB-02-S0110	Hazel Rd. Weir	Weir - Fixed Stage	C2	C3
68	RCB-04-S0110	Collier Co. Production Park S.	Weir - Fixed Stage	C2	C1
69	WBB-01-S0110	Wiggins Pass Weir	Weir - Fixed Stage	C2	C2
71	WBC-00-S0110	Coco West	Weir- AMIL Gate	C2	C3
72	WBC-02-S0210	Victoria Park West Outfall	Weir - Fixed Stage	TBD	C3

Table based on current Collier County GIS Database

Table 4: Control Structure Inspection Rating System

Overall Rating	Description for the Overall Structure	Application
C1	All old deficiencies noted from the previous inspection have been corrected.	Applied when no further action is recommended for the structure.
C2	Most old deficiencies noted from the previous inspection have been corrected.	Applied when the overall recommendation is to monitor minor deficiencies. Deficiencies will generally be re-evaluated at the next five-year inspection of the structure. Provide overall recommendation on when (timeframe) to monitor deficiencies previous to the next structure inspection cycle.
C3	Deficiencies and/or several old deficiencies noted in the last inspection have not been corrected.	Applied when the overall recommendation is to repair the structure during the next maintenance cycle or within 5 to 10-year capital repair schedule. Maintenance repairs are generally estimated to cost less than \$50,000; will not require engineering design.
C4	Serious deficiencies exist that if not immediately corrected may lead to or cause deterioration of the structure.	Applied when the overall recommendation is to elevate repairs to the County's five-year capital repair program. Includes repairs that are generally estimated to cost \$50,000 or more, will require engineering design, or should be repaired within a five-year period.
C5	Major deficiencies exist such that the structural integrity of the structure will probably not withstand a major flood event.	Applied when the overall recommendation is to elevate repairs to the County's capital repair program, but repairs should be conducted in the next cycle of repairs. Generally, the next cycle of repairs would include repair design in the fiscal year following inspection with repair in the fiscal year following design (two-year process).
C5 Critical	Emergency deficiencies exist that must be addressed immediately. Deficiencies include those that impede operation of the structure or jeopardize public safety.	Applied when immediate repairs are recommended. Generally, the County would respond by dispatching its Field Station personnel to triage the deficiency (e.g., block access to the structure, reduced structure operating capacity) until repairs could be affected. Responding County design engineers would be altered to fast track repairs if triage does not ameliorate the deficiencies.

****TBD: Current condition not known at this time. Update upon next inspection.**

Attachment “D”

BASINS AND SUB-BASIN REPORT

Objective: To guide the County’s Stormwater Management Program by utilizing a watershed management approach.

Purpose: To provide a general update on the basins/watersheds used for water resource management and planning within the County.

Considerations: The Stormwater Management Program began a new approach to water resource management with the BCC’s acceptance of the County Watershed Management Plan on December 13, 2011. The Plan provides assessment and management information for geographically defined watersheds including: analysis, actions, participants, and resources related to developing and implementing the Plan. Understanding issues on a basin by basin level allows for better quantitative analysis and program planning. The Board directed staff to implement the Plan as funding and resources became available. Staff continues to follow that directive when initiating Plan recommendations.

There are currently 51 basins in the Stormwater Management GIS database. Since 1990 (Ord. 90-10), the County has had a maximum allowable post-development stormwater runoff discharge rate of 0.15 cubic feet per second (cfs) per acre for all basins, with six (6) exception areas (basins) ranging from 0.04 to 0.13 cfs per acre. These more restrictive rates were established through modeling efforts that demonstrated the need to restrict flows from adjacent lands to the receiving canals. Stormwater discharge rates are limited so the rate at which runoff leaves a developed site will not cause adverse off-site (typically downstream) impacts.

In the development of the Watershed Management Plan (WMP), computer modeling was used to determine the maximum flow that can be conveyed by the various water management canal segments. Results from that effort indicated that various segments of the primary and secondary water management systems do not have the capacity to handle large storm events. Expansion or enlargement of this system to create additional system capacity is not a viable strategy for managing stormwater flows. One means of addressing this limited capacity is to restrict the maximum flow in the associated basins that feed into the canals. The WMP included recommendations to reduce the maximum allowable post-development discharge rates in several basins.

In addition to these recommendations in the WMP, two additional detailed stormwater management master plans, developed jointly by the South Florida Water Management District and the County for the Belle Meade and Immokalee areas, recommended further limiting the discharge rates for four (4) basins/sub-basins. Conditions may worsen in the future unless management actions are implemented to control the impact of subsequent changes to land use. In total, reducing maximum allowable post-development discharge rates in sixteen (16) basins/sub-basins will ensure adequate flood protection levels of service.

A feasibility study and impact analysis was completed to examine the effects of implementation of the discharge rate restrictions. Staff fully vetted the new restricted discharge rates with the Development Services Advisory Committee, the Collier County Planning Commission and, the

South Florida Water Management District. The new rates were then approved by the Board of County Commissioners on June 13, 2017 and became effective on August 4, 2017.

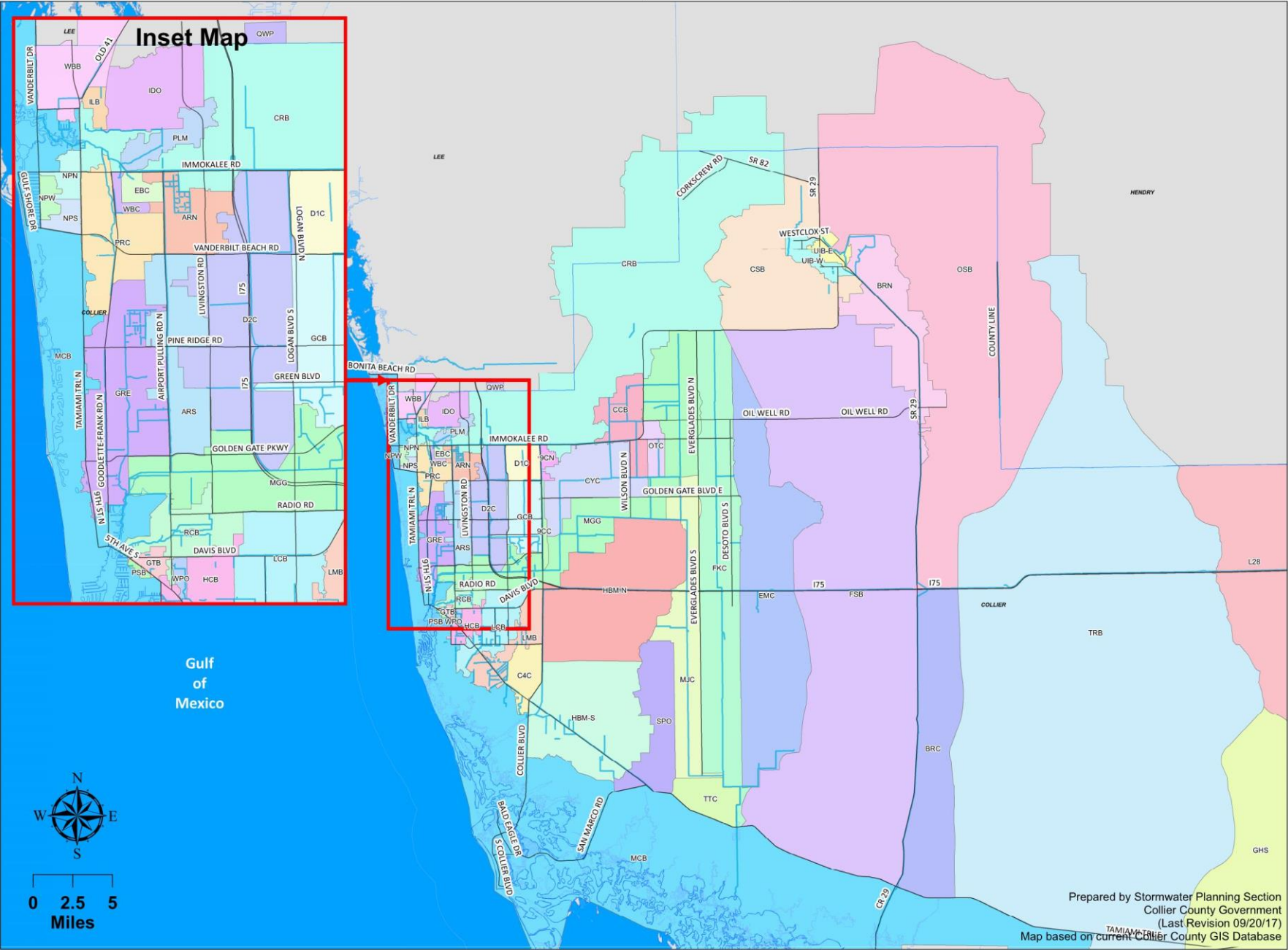
This report includes a listing of all basins with their respective acreage (Table 5); a map depicting all basins within the County (Figure 4); and, a map depicting the twenty-two (22) basins that have restricted stormwater discharge rates (Figure 5).

Basins and Discharge Rates

<u>Specific Discharge Limitation Basins</u>		<u>Rate</u>
1.	Airport Road North Canal Basin	0.04 cfs/acre
2.	Airport Road South Canal Basin	0.06 cfs/acre
3.	Cocohatchee Canal Basin	0.04 cfs/acre
4.	Lely Canal Basin	0.06 cfs/acre
5.	Harvey Canal Basin	0.06 cfs/acre
6.	Wiggins Bay Outlet Basin	0.13 cfs/acre
7.	Henderson Creek - Belle Meade Basin North	0.06 cfs/acre
8.	Henderson Creek - Belle Meade Basin South	0.04 cfs/acre
9.	Immokalee Master Basin East	0.05 cfs/acre
10.	Immokalee Master Basin West	0.10 cfs/acre
11.	951 Canal North Basin	0.11 cfs/acre
12.	C-4 Canal Basin	0.11 cfs/acre
13.	Corkscrew Canal Basin	0.04 cfs/acre
14.	Cypress Canal Basin	0.06 cfs/acre
15.	Faka-Union Canal Basin-N	0.09 cfs/acre
16.	Gordon River Extension Basin	0.09 cfs/acre
17.	I-75 Canal Basin	0.06 cfs/acre
18.	Imperial Drainage Outlet Basin	0.12 cfs/acre
19.	Lely Manor Canal Basin	0.06 cfs/acre
20.	Main Golden Gate Canal Basin	0.04 cfs/acre
21.	Palm River Canal Basin	0.13 cfs/acre
22.	Pine Ridge Canal Basin	0.13 cfs/acre

Figure 4: Collier County Basins Map

Collier County Basins Map



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Table 5: Collier County Basins

	Basin ID	Name	Area (Acres)
1	9CC	951 Canal Central Basin	835
2	9CN	951 Canal North Basin**	828
3	ARN	Airport Road North Canal Basin **	1,717
4	ARS	Airport Road South Canal Basin **	3,124
5	BRC	Barron River Basin	27,635
6	BRN	Barron River Canal Basin (North)	16,873
7	C4C	C-4 Canal Basin**	3,582
8	CCB	Corkscrew Canal Basin**	6,466
9	CSB	Corkscrew Slough Basin	28,016
10	CSB	Cocohatchee River Canal Basin **	90,389
11	CYC	Cypress Canal Basin**	10,885
12	D1C	Harvey Canal Basin **	2,478
13	D2C	I-75 Canal Basin**	8,489
14	EBC	East Branch Cocohatchee	382
15	EMC	Merritt Canal Basin	43,772
16	FKC	Faka-Union Canal Basin**	35,581
17	FSB	Fakahatchee Strand Basin	146,611
18	GCB	Green Canal Basin	5,082
19	GHS	Gator Hook Strand Basin	262,969
20	GRE	Gordon River Extension Basin**	5,064
21	GTB	Gateway Triangle Basin	273
22	HCB	Haldeman Creek Basin	1,830
23	HBM-N	Henderson Creek – Belle Meade Basin North**	31,134
24	HBM-S	Henderson Creek – Belle Meade Basin South**	24,395
25	IDO	Imperial Drainage Outlet Basin**	2,528
26	ILB	Imperial West Landmark FPL Basin	275
27	L28	L-28 Tieback Basin	118,960
28	LCB	Lely Canal Basin **	5,853
29	LMB	Lely Manor Canal Basin**	5,306
30	MCB	Miscellaneous Coastal Basins	189,172
31	MGG	Main Golden Gate Canal Basin**	29,376
32	MJC	Miller Canal Basin	16,086
33	NPN	Naples Park North Basin	429
34	NPS	Naples Park South Basin	352
35	NPW	Naples Park West Basin	279
36	OSB	Okaloacoochee Slough Basin	146,766
37	OTC	Orange Tree Canal Basin	2,029
38	PLM	Palm River Canal Basin**	982
39	PRC	Pine Ridge Canal Basin**	2,659
40	PSB	Palm Street Basin	65
41	QWP	Quail West Phase II	319
42	RCB	Rock Creek Basin	1,884
43	SPO	Seminole Park Outlet Basin	10,752
44	TRB	Turner River Canal Basin	316,480
45	TTC	Tamiami Trail Canal Basin	4,611
46	UIB-E	Urban Immokalee Basin East**	1,691
47	UIB-W	Urban Immokalee Basin West**	2,459
48	WBB	Wiggins Bay Outlet Basin **	2,308
49	WBC	West Branch Cocohatchee River Basin	249
50	WPO	Winter Park Outlet Basin	173

** Basins with restricted discharge rates

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2020-2024

STORMWATER MANAGEMENT SYSTEM PROJECTS								
		CAPITAL IMPROVEMENTS	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	Countywide Programs, Planning & Maintenance		\$ 510,000	\$ 800,000	\$ 850,000	\$ 950,000	\$ 950,000	\$ 4,060,000
	Infrastructure & Capacity Projects		\$ 6,903,000	\$ 31,100,000	\$ 27,450,000	\$ 37,450,000	\$ 23,200,000	\$ 126,103,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$ 7,413,000	\$ 31,900,000	\$ 28,300,000	\$ 38,400,000	\$ 24,150,000	\$ 130,163,000

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
New Budget 101	\$ 4,694,000	\$ 4,694,000	\$ 4,694,000	\$ 4,694,000	\$ 4,694,000	\$ 23,470,000
New Budget 111	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 6,500,000
New Budget 310	\$ 2,000,000					\$ 2,000,000
Anticipated Grants	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 80,000
Interest	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Neg 5% Revenue Reserve	\$ (3,000)	\$ (3,000)	\$ (3,000)	\$ (3,000)	\$ (3,000)	\$ (15,000)
325 Reserves	\$ (700,000)					\$ (700,000)
Carry Forward	\$ (8,000)	\$ -	\$ -	\$ -	\$ -	\$ (8,000)
Unmet Funding Needs	\$ -	\$ 25,859,000	\$ 22,259,000	\$ 32,359,000	\$ 18,109,000	\$ 98,586,000
REVENUE TOTAL	\$ 7,413,000	\$ 31,900,000	\$ 28,300,000	\$ 38,400,000	\$ 24,150,000	\$ 130,163,000

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2025-2029

STORMWATER MANAGEMENT SYSTEM PROJECTS							
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
	Stormwater Management System Projects	Continuous	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000
	Stormwater Management Operations & Reserves		\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
CRA - Community Redevelopment Area / Municipal Service Taxing Unit	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000
REVENUE TOTAL	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000

COUNTY WATER - SEWER DISTRICT – POTABLE WATER SYSTEM

CONTENTS

- **POTABLE WATER SYSTEM 2019 AUIR FACILITY SUMMARY
INTRODUCTION**
- **LEVEL OF SERVICE (LOSS) STANDARD ASSESSMENT FOR
SERVICE AREA (TABLE, NOTES)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - CURRENT
AND FUTURE POTABLE WATER SERVICE AREAS (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - WATER
SERVICE JURISDICTION (MAP)**
- **FUTURE DEVELOPMENT IN NORTHEAST COLLIER
COUNTY (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - SYSTEM
UTILIZATION AND DIMINISHING CAPACITY REPORT
("CHECKBOOK")**
- **EXHIBIT 'A' - SCHEDULE OF CAPITAL IMPROVEMENTS**
- **APPENDIX "H" - FUTURE COSTS AND REVENUES BY TYPE
OF PUBLIC FACILITY**

2019 AUIR FACILITY SUMMARY
POTABLE WATER SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Potable Water System Facilities

Level of Service Standard: 150 gallons per capita day (gpcd) ⁽¹⁾

Capacity:

Total Permitted Treatment Capacity, FY 20	52.75 MGD
Total Operational Treatment Capacity, FY 20	48.75 MGD
Required Treatment Capacity, FY 20	42.52 MGD
Total Permitted Treatment Capacity, FY 29	57.75 MGD
Total Operational Treatment Capacity, FY 29	53.75 MGD
Required Treatment Capacity, FY 29	51.43 MGD

Expenditures FY20-FY24

⁽²⁾

Debt Service	\$57,849,500
Expansion Related Projects - Other	\$73,400,000
Replacement & Rehabilitation Projects - Other	\$150,584,400
Departmental Capital	\$4,138,000
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$15,060,000</u> ⁽³⁾
TOTAL	\$301,031,900

Existing Revenue Sources FY20-FY24

Water System Development Fees / Impact Fees	\$32,000,000
Bonds	\$73,400,000
State Revolving Fund Loans	\$0
Water Capital Account	\$4,138,000
Rate Revenue	<u>\$191,493,900</u>
TOTAL	\$301,031,900

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

That the BCC find the Collier County Water-Sewer District Potable Water System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2019 CCWSD Potable Water System Facilities AUIR and adopt the CIE update for FY20-FY24.

Conclusion:

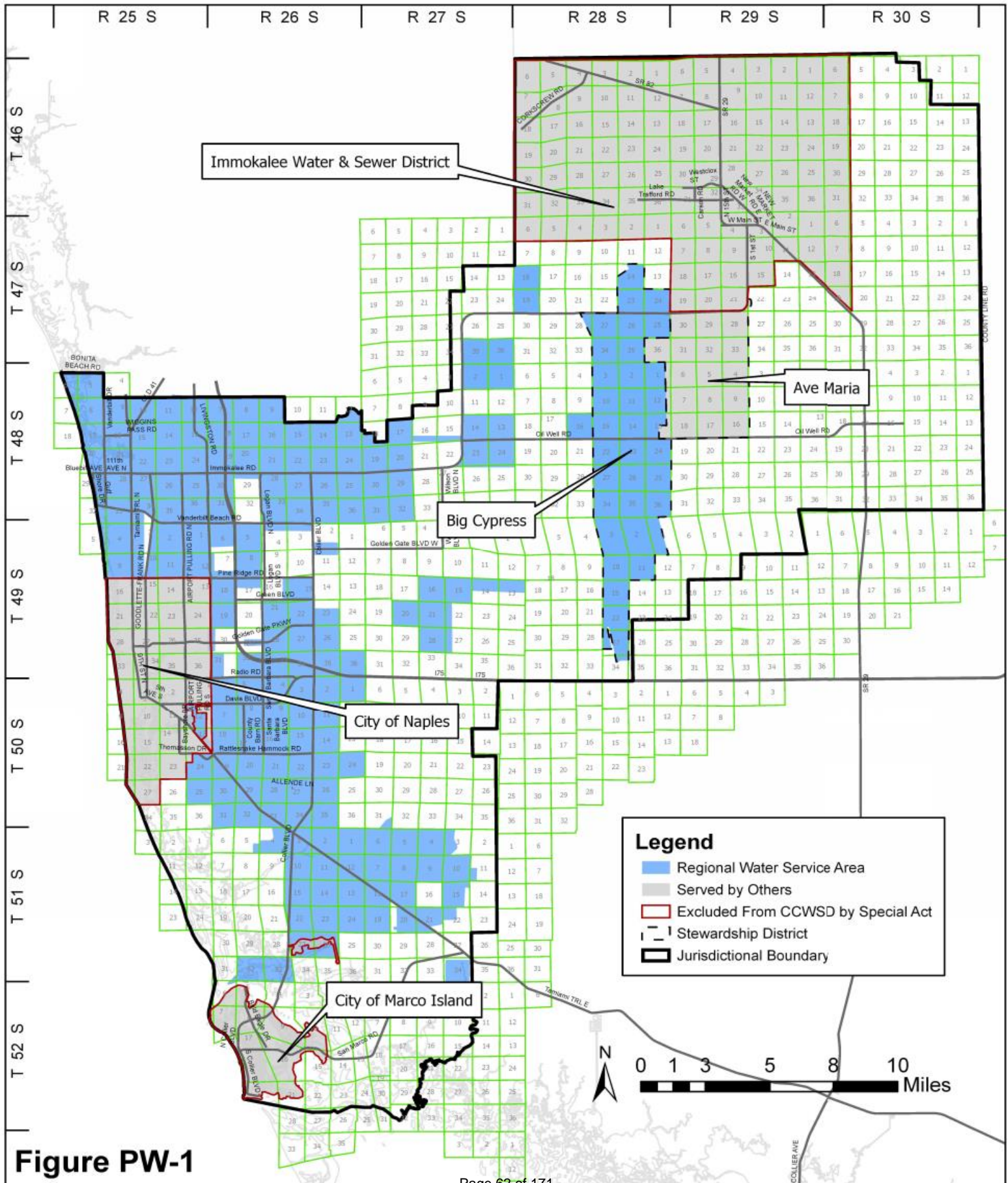
To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects should commence in FY 2024 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

⁽¹⁾ Per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan (reference 2015 AUIR, Appendix III)

⁽²⁾ The CIE is consistent with the Board-approved FY20 budget.

⁽³⁾ As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses.

Collier County Water-Sewer District Current and Future Potable Water Service Areas (2019 AUIR)



Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The Public Utilities Department's proposed 2019 Potable Water System Treatment Facilities AUIR is based on permanent population estimates and projections for the potable water service area prepared by the Collier County Comprehensive Planning Section on June 24, 2019. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2029.

The BEBR population numbers are supplemented by estimates per the implementation plan for the Golden Gate City service area, as reported in the "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate" prepared by Stantec Consulting Services Inc. The population projections include the large, planned developments in the expanded Northeast Service Area (i.e. Rivergrass Village, Hyde Park Village, Immokalee Road Rural Village, and Hogan Island Village).

Notes

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "jurisdictional boundary," as shown on the map entitled "Current and Future Potable Water Service Areas," encompasses the four large developments planned in the Northeast Service Area, including Rivergrass Village, Hyde Park Village, Immokalee Road Rural Village, and Hogan Island Village, as depicted on the map entitled, "Future Development in Northeast Collier County."
- C. To serve the current potable water service area, shown in blue on the service area map, and to support forecasted growth in the Northeast Service Area, 5 MGD of new treatment capacity will be needed by FY 2027. This will be achieved through phased construction of a new regional water treatment plant at the Northeast Utility Facilities (NEUF) site.

The NEUF are sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2018-2019). To facilitate reactivation, site work was begun in FY 2019. Construction of the new plant is anticipated in FY 2024 with completion in FY 2027, depending upon developer commitments. The addition of a third water treatment plant provides the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging demands on the existing two plants and will allow for rehabilitation and replacement.

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook") which compares available treatment capacity to the quantity of Board-approved planned unit developments (PUDs). Currently, the Checkbook reports that if all active Board-approved PUDs within the current service area were to be constructed, there would be a 3% surplus in potable water treatment capacity in the regional system.

- D. The Public Utilities Department has solicited new master plans for water, wastewater, and irrigation quality water under RPS 18-7370, with an anticipated completion in FY 2021.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The 2019 Potable Water System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2020 and FY 2021, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

Recommendation

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2019 CCWSD Potable Water System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/5/2019

1	2	3	4	5	6	7	8
Fiscal Year	Permanent Population Served on Oct. 1	Required Treatment Capacity at Max. TDADD MGD	New Treatment Capacity MGD	Total Permitted Treatment Capacity MGD	Total Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Percent of Total Permitted Capacity (Max. Day) MGD
2015	174,592	34.0		52.00	48.00	14.0	68%
2016	179,150	34.9		52.00	48.00	13.1	70%
2017	183,615	35.8		52.00	48.00	12.2	72%
2018	194,162	37.9		52.75	48.75	10.9	75%
2019	212,171	41.4		52.75	48.75	7.4	81%
2020	218,049	42.5		52.75	48.75	6.2	84%
2021	222,762	43.4		52.75	48.75	5.3	86%
2022	227,193	44.3		52.75	48.75	4.4	87%
2023	231,708	45.2		52.75	48.75	3.6	89%
2024	237,548	46.3		52.75	48.75	2.4	91%
2025	243,476	47.5		52.75	48.75	1.3	93%
2026	249,011	48.6		52.75	48.75	0.2	96%
2027	254,145	49.6	5.00	57.75	53.75	4.2	89%
2028	259,335	50.6		57.75	53.75	3.2	91%
2029	263,732	51.4		57.75	53.75	2.3	92%

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA**

9/5/2019

Notes (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 24, 2019. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2029. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the NE Utility WTP (formerly Orangetree Utilities - OTU) service area beginning in FY 2018 and the Golden Gate City service area (approximately 4 square miles) beginning in FY 2019 based on acquisition dates during FY 2017 and FY 2018 respectively. The CCWSD presently supplies potable water to a population of approximately 12,404 in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 2 will increase the population served to 21,285 within 10 years. 86 new water customers have been connected since system acquisition in March 2018, bringing the total number of water customers in Golden Gate City from 3,687 to 3,773 as of July 2019. Additional water customers are being connected on an individual basis where existing infrastructure is available. Larger system expansion is anticipated starting in FY 2022-2023 after transmission mains are constructed in FY 2022.

3. Required Treatment Capacity at Max. TDADD is obtained by multiplying the Permanent Population Served on Oct. 1 by 150 gallons per capita per day (gpcd) and by a maximum 3-day average daily demand (TDADD) peaking factor of 1.3 and is expressed in million gallons per day (MGD). 150 gpcd is the established Level of Service (LOS) Standard for the Potable Water Service Area, as adopted in the 2015 CCWSD Potable Water System AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a max. TDADD basis for capacity analysis. Required Treatment Capacity at Max. TDADD is plotted in the chart on the next page.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2027	5 MGD	Design and permitting updates for additional potable water treatment capacity at the NEUF started in FY 2018 and will be online in FY 2028, as follows: a. Update design criteria, completed FY 2018. b. Update construction drawings and bid package, complete FY 2020. c. Construct NERWTP potable water facilities, \$48.4M, FY 2024-2027.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/5/2019

5. Total Permitted Treatment Capacity is the total permitted finished water treatment capacity at the beginning of the fiscal year in million gallons per day (MGD), including New Treatment Capacity.

Capacity in FY 2018 increased by 0.75 MGD (as currently sited) because Orangetree Utilities (OTU) was integrated into the CCWSD on March 1, 2017, during FY 2017.

Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority occurred on March 1, 2018. Existing Golden Gate City Utility potable water facilities include a 2.1 MGD water treatment plant; however, no additional capacity is stated because this area is now served by the nearby CCWSD regional potable water system. Unused Golden Gate City Utility assets are being repurposed and/or decommissioned, depending on condition.

Twin Eagles potable water services transitioned from the NE Utility WTP (former OTU) to the CCWSD Regional potable water system on December 18, 2017. All customers within the Orangetree PUD and the Orange Blossom Ranch PUD as well as the Corkscrew Elementary/Middle and the Palmetto Ridge High public school campuses were diverted through reliability interconnects over the course of FY 2018.

6. Total Operational Treatment Capacity (See Note 6) is the Total Permitted Treatment Capacity less 4 MGD, the treatment capacity of a lime softening reactor/clarifier, which could be out of service during a period of peak demand, as plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADD.

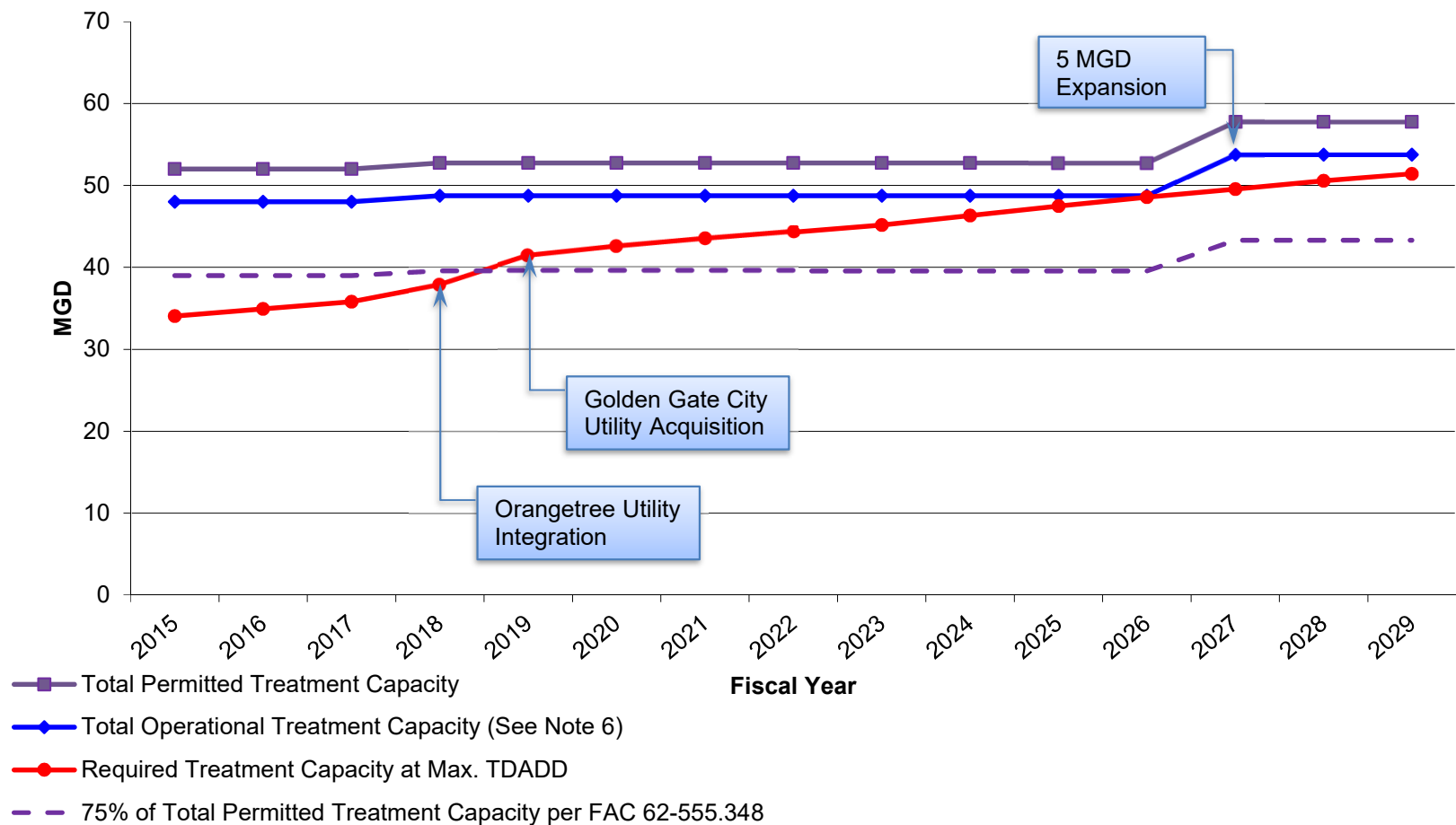
7. Retained Operational Treatment Capacity is the Total Operational Treatment Capacity (See Note 6) minus the Required Treatment Capacity at Max. TDADD.

8. Percent of Total Permitted Capacity (Max. Day) is the total maximum-day quantity of finished water produced by all treatment plants connected to the water system as a percentage of Total Permitted Treatment Capacity. Per FAC 62-555.348, source/treatment/storage capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once maximum-day demand exceeds 75% of Total Permitted Treatment Capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR POTABLE WATER SERVICE AREA
LOS: 150 GPCD

9/5/2019



Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/5/2019

FRESH WATER

There is one existing wellfield that supplies fresh water to the two regional plants and a small existing wellfield that supplies fresh water to the NE Utility WTP. Another small wellfield will be built to serve the future NERWTP. Each is discussed in more detail below.

Golden Gate Wellfield

Raw fresh water is provided to both the North County Regional Water Treatment Plant (NCRWTP) and the South County Regional Water Treatment Plant (SCRWTP) from the Golden Gate Wellfield. The wellfield has a current inventory of 35 wells that terminate in the Lower Tamiami Aquifer.

The NCRWTP utilizes a membrane filtration (MF) water treatment process that produces a maximum of 12 million gallons per day (MGD) of potable water. The treatment process is 85% efficient (i.e. produces 85 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The SCRWTP utilizes a lime softening water treatment process that produces a maximum of 12 MGD of potable water. The treatment process is 97% efficient.

The two treatment processes produce a combined total of 24 MGD of potable water with a combined efficiency of 91%. A total of 26.5 MGD of raw water is needed to operate the two processes at maximum capacity.

The wells in the Golden Gate Wellfield have an average production rate of 1.267 MGD. In order to produce the 26.5 MGD of raw water necessary to run the water treatment processes at maximum capacity, a minimum of 24 wells are required.

A Minimum Reliability Standard (MRS) of 20% is used for fresh water wells (1 reliability well for every 5 production wells). At full treatment capacity, the MRS requires 29 wells.

Northeast Service Area (NESA) Wellfield

Raw fresh water is provided to the NE Utility WTP from the NESA Wellfield. The wellfield has a current inventory of 4 wells that terminate in the Lower Tamiami Aquifer.

The NE Utility WTP utilizes a membrane softening (MS) water treatment process that produces a maximum of 0.75 MGD of potable water. The treatment process is 82% efficient (i.e. produces 82 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the NESA Wellfield have an average production rate of 0.432 MGD. In order to produce the 0.91 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 3 wells are required.

An MRS of 20% is used for fresh water wells (1 reliability well for every 5 production wells). At full treatment capacity, the MRS requires 4 wells.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/5/2019

Northeast IE Wellfield

Raw fresh water will be provided to the NERWTP from the Northeast IE Wellfield. The first phase will include 5 wells that terminate in the Lower Tamiami and/or Hawthorn Zone 1 aquifers.

Phase 1 of the NERWTP will utilize an ion exchange (IE) water treatment process that will produce a maximum of 3.75 MGD of potable water. The treatment process will be 82% efficient (i.e. will produce 82 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the Northeast IE Wellfield will have an average production rate of 1.440 MGD. In order to produce the 4.57 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 4 wells will be required.

An MRS of 20% is used for fresh water wells (1 reliability well for every 5 production wells). At full treatment capacity, the MRS requires 5 wells.

BRACKISH WATER

There are two separate wellfields that independently provide brackish water to the two regional plants. Another small wellfield will be built to serve the future NERWTP. Each is discussed in more detail below.

North RO Wellfield

The North RO Wellfield supplies brackish water to the NCRWTP from 25 wells that terminate in the mid- and lower-Hawthorn aquifers.

The NCRWTP utilizes a low-pressure reverse osmosis (RO) water treatment process that produces a maximum of 8 MGD of potable water. The treatment process is 75% efficient. 10.7 MGD of raw water is needed at full treatment capacity.

The wells in the North RO Wellfield have an average production rate of 1.066 MGD. In order to produce the 10.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 11 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 14 wells are needed to meet the MRS at full treatment capacity. The North RO Wellfield has a current inventory of 25 wells. No additional wells are scheduled to be constructed in the next ten years.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/5/2019

South RO Wellfield

The South RO Wellfield supplies brackish water to the NCRWTP from 45 wells that terminate in the mid- and lower-Hawthorn aquifers.

The SCRWTP utilizes a low-pressure RO water treatment process that produces a maximum of 20 MGD of potable water. The treatment process is 75% efficient. 26.7 MGD of raw water is needed at full treatment capacity.

The wells in the South RO Wellfield have an average production rate of 1.069 MGD. In order to produce the 26.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 25 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 30 wells are needed to meet the MRS at full treatment capacity. The South RO Wellfield has a current inventory of 45 wells. No additional wells are scheduled to be constructed in the next ten years.

Northeast RO Wellfield

Raw brackish water will be provided to the NERWTP from the Northeast RO Wellfield. The first phase will include 5 wells that terminate in the lower Hawthorn aquifer.

Phase 1 of the NERWTP will utilize an low-pressure RO water treatment process that will produce a maximum of 1.25 MGD of potable water. The treatment process will be 75% efficient (i.e. will produce 75 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the Northeast RO Wellfield will have an average production rate of 1.440 MGD. In order to produce the 1.67 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 2 wells will be required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). At full treatment capacity, the MRS requires 3 wells.

CONCLUSION

The CCWSD's existing wellfields have capacities in excess of the minimum reliability standards based upon the population estimates and projections for the regional potable water system service area, and future wellfields of reliable capacities will be timely completed in support of the NERWTP (online by FY 2027).

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/5/2019

1	2	3	4	5	6	7	8	9
Fiscal Year	Required Finished Water for Max. TDADD	Golden Gate Wellfield Reliable Capacity	North RO Wellfield Reliable Capacity	South RO Wellfield Reliable Capacity	NESA Wellfield Reliable Capacity	Northeast IE Wellfield Reliable Capacity	Northeast RO Wellfield Reliable Capacity	Total Wellfield Reliable Capacity
	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD
2015	34.0	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2016	34.9	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2017	35.8	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2018	37.9	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2019	41.4	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2020	42.5	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2021	43.4	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2022	44.3	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2023	45.2	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2024	46.3	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2025	47.5	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2026	48.6	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2027	49.6	24.00*	8.00*	20.00*	0.75*	3.75*	1.25*	57.75
2028	50.6	24.00*	8.00*	20.00*	0.75*	3.75*	1.25*	57.75
2029	51.4	24.00*	8.00*	20.00*	0.75*	3.75*	1.25*	57.75

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/5/2019

Notes (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Required Finished Water for Max. TDADD - See note 3 in LOS standard assessment for treatment facilities.
3. Golden Gate Wellfield Reliable Capacity is the pumping capacity of the Golden Gate Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 91% (97% for SCRWTP lime softening and 75% for NCRWTP Low Pressure Reverse Osmosis, each process at 12 MGD treatment capacity) and a reliability standard of one reliability well for every five production wells (i.e. 5/6 of the total number of wells operating). The current number of wells in the Golden Gate Wellfield is 35. Well 38 will be online by November 2019, Well 39 will be online by December 2020, Well 40 will be online by September 2021, and one well will be constructed in each fiscal year thereafter to maintain reliability as the wellfield ages and wells reach the end of their useful lives. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated treatment process.
4. North RO Wellfield Reliable Capacity is the pumping capacity of the North RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of one reliability well for every three production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the North RO Wellfield is 25. Wells 1-4 are inactive due to elevated salinity (total dissolved solids, TDS) in the aquifer. Well 4 will be abandoned due to conflict with the Vanderbilt Beach Road Extension project. Jacobs Engineering Group was retained in August 2018 to perform a capacity study, sensitivity analysis, and design modifications for the RO treatment process. \$2.5M has been programmed into the CIP for those modifications to occur in FY 2024. Wellfield reliable capacity will increase accordingly in FY 2025, assuming Wells 1-3 are returned to serviceability. Additionally, wells 118 and 119 could be equipped and activated, but these projects were not funded in the CIP due to other priorities. So, there is no associated increase in wellfield capacity within the 10-year planning horizon. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated treatment process.
5. South RO Wellfield Reliable Capacity is the pumping capacity of the South RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of one reliability well for every three production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the South RO Wellfield is 45. No additional wells are planned. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated treatment process.
6. NESA Wellfield Reliable Capacity is the pumping capacity of the NESA Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 82% and a reliability standard of one reliability well for every five production wells (i.e. 5/6 of the total number of wells operating). The current number of wells in the NESA Wellfield is 4. No additional wells are planned. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated treatment process.
7. Northeast IE Wellfield Reliable Capacity is the pumping capacity of the future Northeast IE Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 82% and a reliability standard of one reliability well for every five production wells (i.e. 5/6 of the total number of wells operating). The proposed number of wells in the initial phase of the Northeast IE Wellfield is 5. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated
8. Northeast RO Wellfield Reliable Capacity is the pumping capacity of the future Northeast RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of one reliability well for every three production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the Northeast RO Wellfield is 3. An asterisk (*) indicates where wellfield reliable capacity is limited by the capacity of the associated treatment process.

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POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

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9. Total Wellfield Reliable Capacity is the net reliable capacity of the six wellfields combined. The below table summarizes the total quantity of wells in each wellfield for each plan year:

Fiscal Year	GG ^a Wells	NRO ^b Wells	SRO ^b Wells	NESA ^a Wells	NEIE ^a Wells	NERO ^b Wells	Total Wells	Add Fresh	Add Brackish
2020	35	25	45	4	0	0	109	1	
2021	36	25	45	4	0	0	110	2	
2022	38	25	45	4	0	0	112	1	
2023	39	25	45	4	0	0	113	1	
2024	40	25	45	4	0	0	114	1	3
2025	41	28	45	4	0	0	118	1	
2026	42	28	45	4	0	0	119	6	3
2027	43	28	45	4	5	3	128	1	
2028	44	28	45	4	5	3	129	1	
2029	45	28	45	4	5	3	130		
Net Add'l	10	3	0	0	5	3	21	15	6

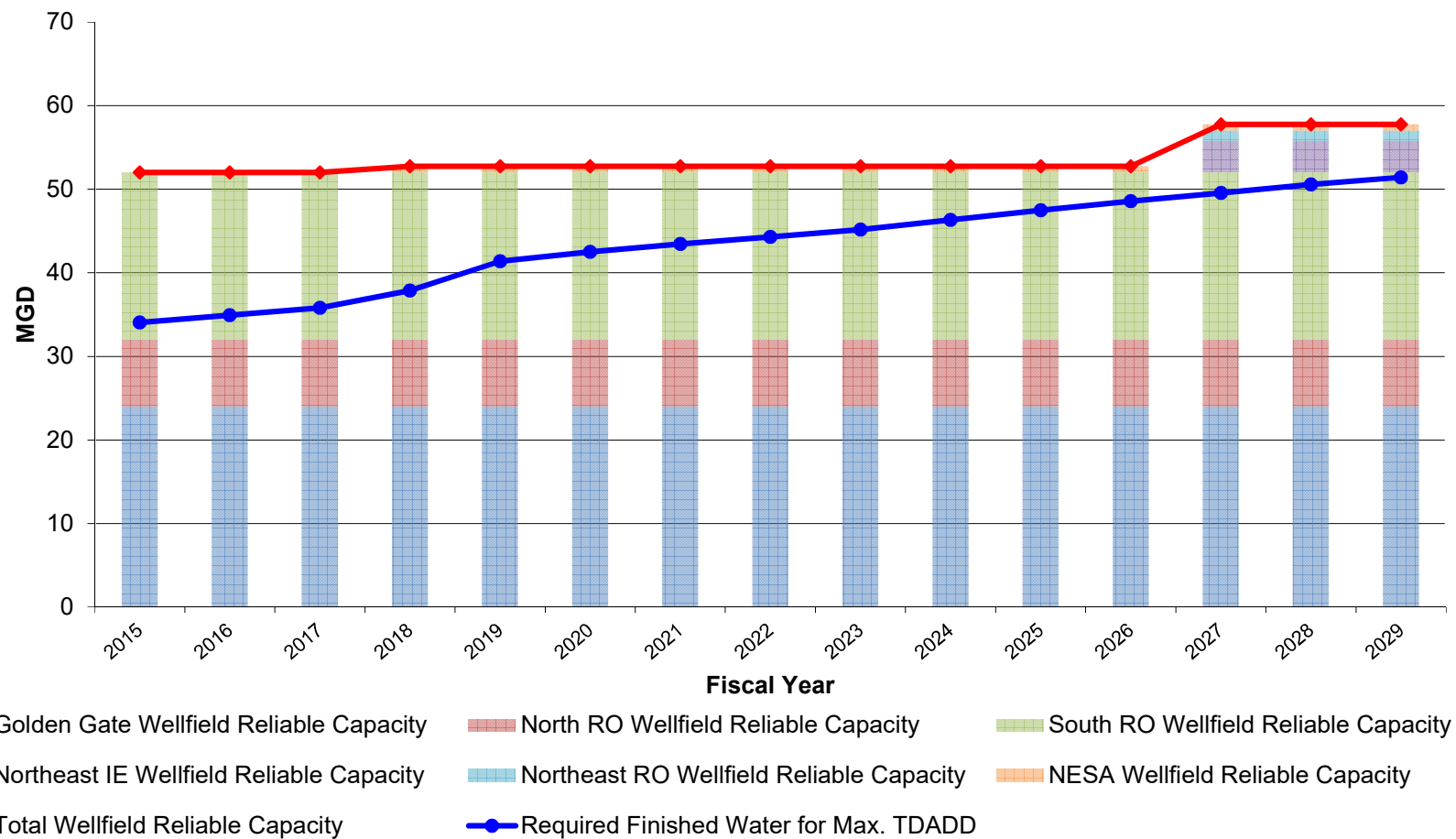
^aFresh

^bBrackish

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR POTABLE WATER SERVICE AREA
LOS: 150 GPCD

9/5/2019



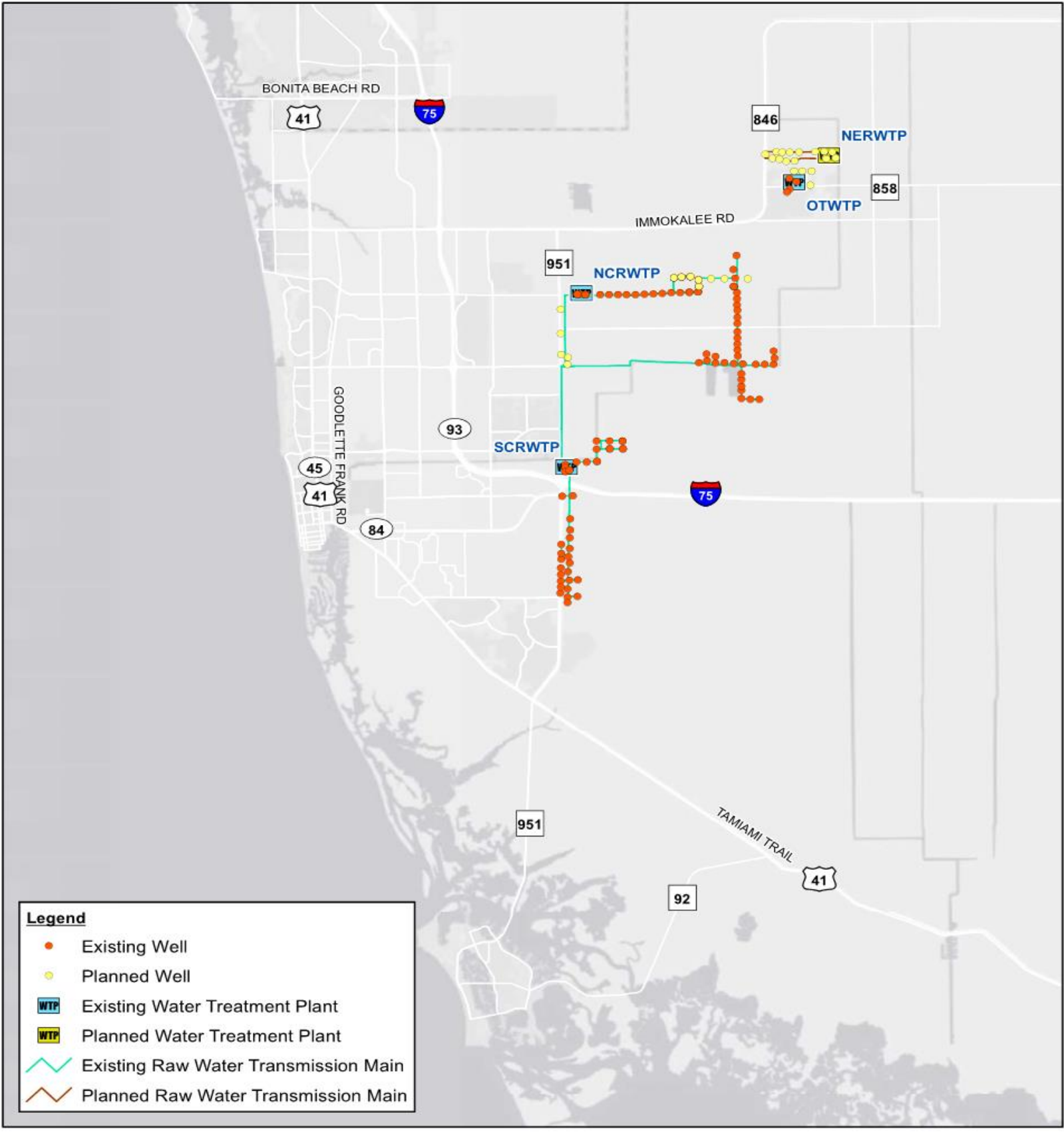
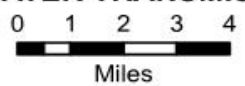
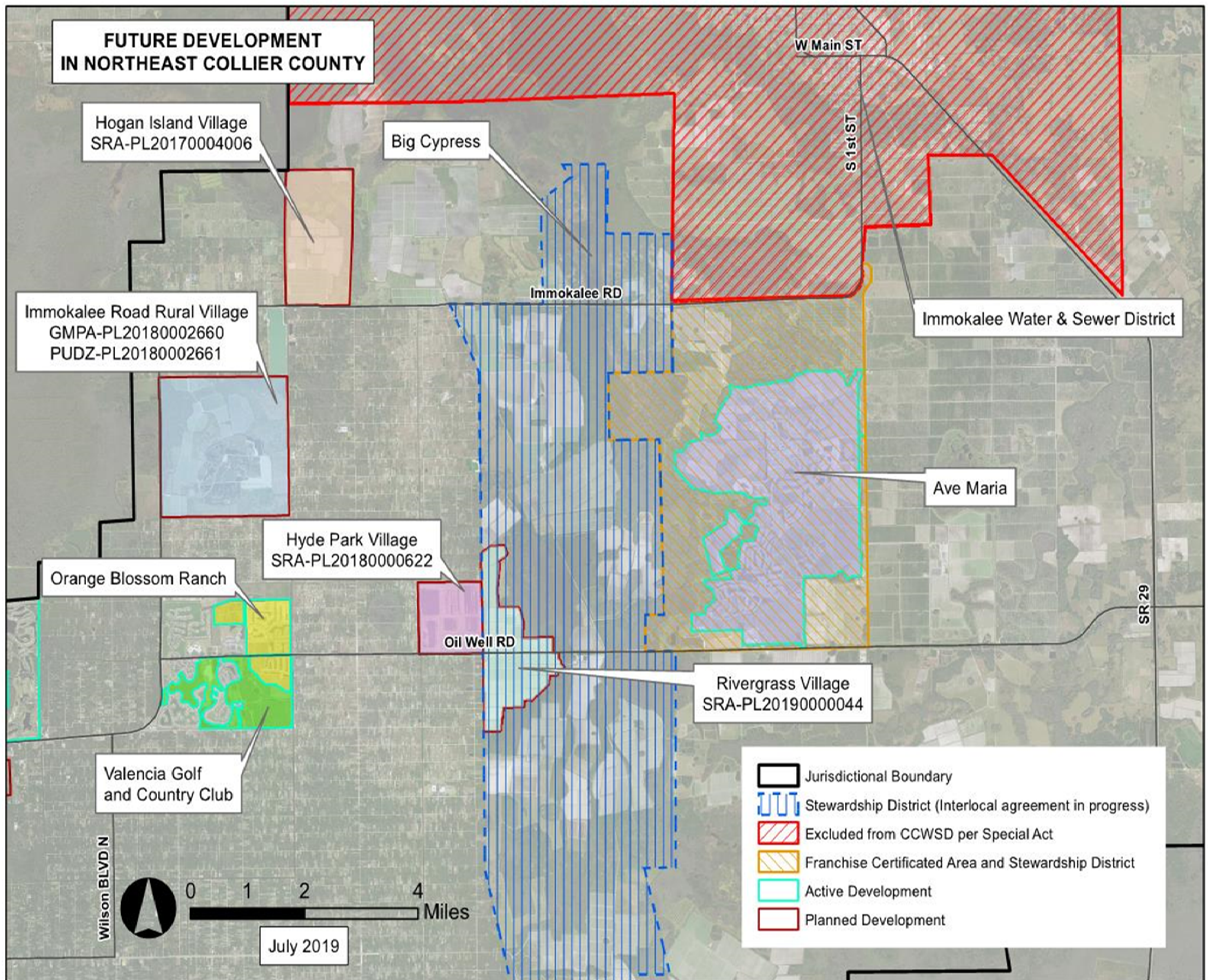


FIGURE 5-1
COLLIER COUNTY 10-YEAR WATER SUPPLY FACILITIES WORK PLAN
EXISTING AND PLANNED CCWSD WELLFIELDS
AND RAW WATER TRANSMISSION LINES





COLLIER COUNTY WATER - SEWER DISTRICT
SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")
REGIONAL WATER SYSTEM
DATA: Current as of August 15, 2019

Million Gallons per Day (MGD)

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL DATA)

- 1a. Existing Permitted Plant Capacity (MADD for Water, MADF for Wastewater)
- 1b. Existing Operational Plant Capacity (per 2018 AUIR)
- 2a. Historical Maximum 3-Day Average Daily Demand/Flow (TDADD/TDADF) [2]
- 2b. Historical Maximum Month Average Daily Demand/Flow (MADD/MADF) [3]
- 4a. Current Available Diminishing Capacity Based on Max. 3-Day (Line 1b - Line 2a - Line 3a)
- 4b. Current Available Diminishing Capacity Based on Max. Month (Line 1b - Line 2b - Line 3b)

WATER
REGIONAL
52.000
48.000
34.073
31.877
13.927
16.123

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

- 5a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 4a / Line 1b)**
- 5b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 4b / Line 1b)**

29%
34%

Million Gallons per Day (MGD)

PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)

- 6. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List) [5]
- 7a. Projected Available Capacity Based on Max. 3-Day (Line 4a - Line 6)
- 7b. Projected Available Capacity Based on Max. Month (Line 4b - Line 6)

WATER
REGIONAL
12.344
1.583
3.779

CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

- 8a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 7a / Line 1b)**
- 8b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 7b / Line 1b)**

3%
8%

COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

REGIONAL WATER SYSTEM

DATA: Current as of August 15, 2019

Million Gallons per Day (MGD)

FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS AND DIVERSIONS)

- 9a. Expansions Within Next 12 Months (MADD for Water, MADF for Wastewater)
- 9b. Expansions Within Next 12-24 Months (MADD for Water, MADF for Wastewater)
- 11a. Future Available Capacity Based on Max. 3-Day (Line 7a + Line 9a + Line 9b - Line 10a)
- 11b. Future Available Capacity Based on Max. Month (Line 7b + Line 9a + Line 9b - Line 10b)

WATER
REGIONAL
0.000
0.000
1.583
3.779

FUTURE AVAILABILITY WITH EXPANSIONS AND DIVERSIONS

- 12a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1b)**
- 12b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 11b / Line 1b)**

3%
8%

FOOTNOTES/QUALIFIERS:

- [2] Line 2a: Mo-Yr of Max. 3-Day Since January 2003 =>
- [3] Line 2b: Mo-Yr of Max. Month Since January 2003 =>
- [4] The sub-regional Northeast Utility Facilities (former OTU) previously served all customers in the Orangetree and Orange Blossom Ranch PUDs as well as the Twin Eagles subdivision, but all former OTU customers have been transferred to the regional potable water system as of August 13, 2018, and flow from Twin Eagles will be diverted to the NCWRF wastewater collection/transmission system by April 2019. Since the historical max. wastewater flows occurred prior to any services being transferred, values are reduced by eleven percent (11%) based on billing data from September 2017, the month in which the maximums occurred.
- [5] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the latest master plan.

Mar-19
Apr-06

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2020-2024

PUD

POTABLE WATER SYSTEM PROJECTS								
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2020	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT TOTAL
	Debt Service		\$11,447,500	\$11,504,000	\$11,704,500	\$11,510,500	\$11,683,000	\$57,849,500
	Expansion Related Projects - Other		\$0	\$25,000,000	\$0	\$0	\$48,400,000	\$73,400,000
	Replacement & Rehabilitation Projects - Other		\$32,124,400	\$31,985,000	\$29,335,000	\$28,605,000	\$28,535,000	\$150,584,400
	Departmental Capital		\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,212,000	\$3,199,000	\$2,934,000	\$2,861,000	\$2,854,000	\$15,060,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$47,578,900	\$72,499,000	\$44,800,500	\$43,820,500	\$92,333,000	\$301,031,900

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
WIF - Water System Development Fees / Impact Fees	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000
B1 - Bonds	\$0	\$25,000,000	\$0	\$0	\$48,400,000	\$73,400,000
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
REV - Rate Revenue	\$40,383,900	\$40,288,000	\$37,573,500	\$36,576,500	\$36,672,000	\$191,493,900
REVENUE TOTAL	\$47,578,900	\$72,499,000	\$44,800,500	\$43,820,500	\$92,333,000	\$301,031,900

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

CIE consistent with Board-approved FY20 budget

DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:

FY 2020 is obtained from the 2020 Proposed Budget.

FY 2021 to FY 2024 are from the FY 2019 Impact Fee Rate Study.

Department Capital:

FY 2020 is obtained from the 2020 Proposed Budget, split 50/50 between Water and Wastewater.

FY 2021 to FY 2024 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).

Debt Service:

All years are obtained from the Collier County Water-Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects:

As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2025-2029

PUD

POTABLE WATER PROJECTS								
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2025	\$ AMOUNT FY 2026	\$ AMOUNT FY 2027	\$ AMOUNT FY 2028	\$ AMOUNT FY 2029	\$ AMOUNT TOTAL
	Debt Service		\$12,077,000	\$11,300,000	\$10,481,500	\$10,258,000	\$11,344,500	\$55,461,000
	Expansion Related Projects - Generally		\$0	\$0	\$0	\$0	\$0	\$0
	Replacement & Rehabilitation Projects - Generally		\$28,085,000	\$29,085,000	\$27,685,000	\$26,435,000	\$26,335,000	\$137,625,000
	Departmental Capital		\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,809,000	\$2,909,000	\$2,769,000	\$2,644,000	\$2,634,000	\$13,765,000
	POTABLE WATER PROJECT TOTALS		\$43,849,000	\$44,190,000	\$41,849,500	\$40,269,000	\$41,264,500	\$211,422,000

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
WIF - Water System Development Fees	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000
B1 - Bonds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
REV - Rate Revenue	\$36,571,000	\$36,894,000	\$34,535,500	\$32,937,000	\$33,913,500	\$174,851,000
REVENUE TOTAL	\$43,849,000	\$44,190,000	\$41,849,500	\$40,269,000	\$41,264,500	\$211,422,000

NOTE: Figures provided for years six through ten are estimates of revenues necessary to support project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

COUNTY WATER - SEWER DISTRICT – WASTEWATER TREATMENT SYSTEMS

CONTENTS

- **2019 AUIR FACILITY SUMMARY - WASTEWATER TREATMENT SYSTEM FACILITIES**
- **INTRODUCTION**
- **LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA (TABLE, NOTES & CHART)**
- **LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA (TABLE, NOTES & CHART)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - CURRENT AND FUTURE WASTEWATER SERVICE AREAS MAP**
- **COLLIER COUNTY WATER-SEWER DISTRICT - WASTEWATER SERVICE JURISDICTION (MAP)**
- **FUTURE DEVELOPMENT IN NORTHEAST COLLIER COUNTY (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT (“CHECKBOOK”)**
- **EXHIBIT “A” - SCHEDULE OF CAPITAL IMPROVEMENTS**
- **APPENDIX “H” - FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY**

2019 AUIR FACILITY SUMMARY
WASTEWATER TREATMENT SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Wastewater Treatment System

Level of Service Standard: 100 gallons per capita day (gpcd) ⁽¹⁾

Capacity: South Service Area (SCWRF)

Permitted/Operational Treatment Capacity, FY20	16.00 MGD
Required Treatment Capacity, FY20	15.81 MGD
Permitted/Operational Treatment Capacity, FY29	16.00 MGD
Required Treatment Capacity, FY29	16.00 MGD

Capacity: North Service Area (NCWRF)

Permitted/Operational Treatment Capacity, FY20	26.35 MGD
Required Treatment Capacity, FY20	21.23 MGD
Permitted/Operational Treatment Capacity, FY29	26.73 MGD
Required Treatment Capacity, FY29	25.75 MGD

Capacity: Northeast Service Area (NEWRF)

Permitted/Operational Treatment Capacity, FY20	0.00 MGD
Required Treatment Capacity, FY20	0.00 MGD
Permitted/Operational Treatment Capacity, FY29	4.00 MGD
Required Treatment Capacity, FY29	1.10 MGD

Expenditures FY20-FY24

Debt Service	\$51,814,000	
Expansion Related Projects - Other	\$114,400,000	
Replacement & Rehabilitation Projects - Other	\$148,160,600	
Departmental Capital	\$4,138,000	
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$14,078,000</u>	⁽²⁾
	TOTAL	\$332,590,600

Existing Revenue Sources FY20-FY24

Wastewater System Development Fees / Impact Fees	\$33,000,000	
Bonds	\$114,400,000	
State Revolving Fund Loans	\$0	
Wastewater Capital Account - Transfers	\$4,138,000	
Rate Revenue	<u>\$181,052,600</u>	
	TOTAL	\$332,590,600

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

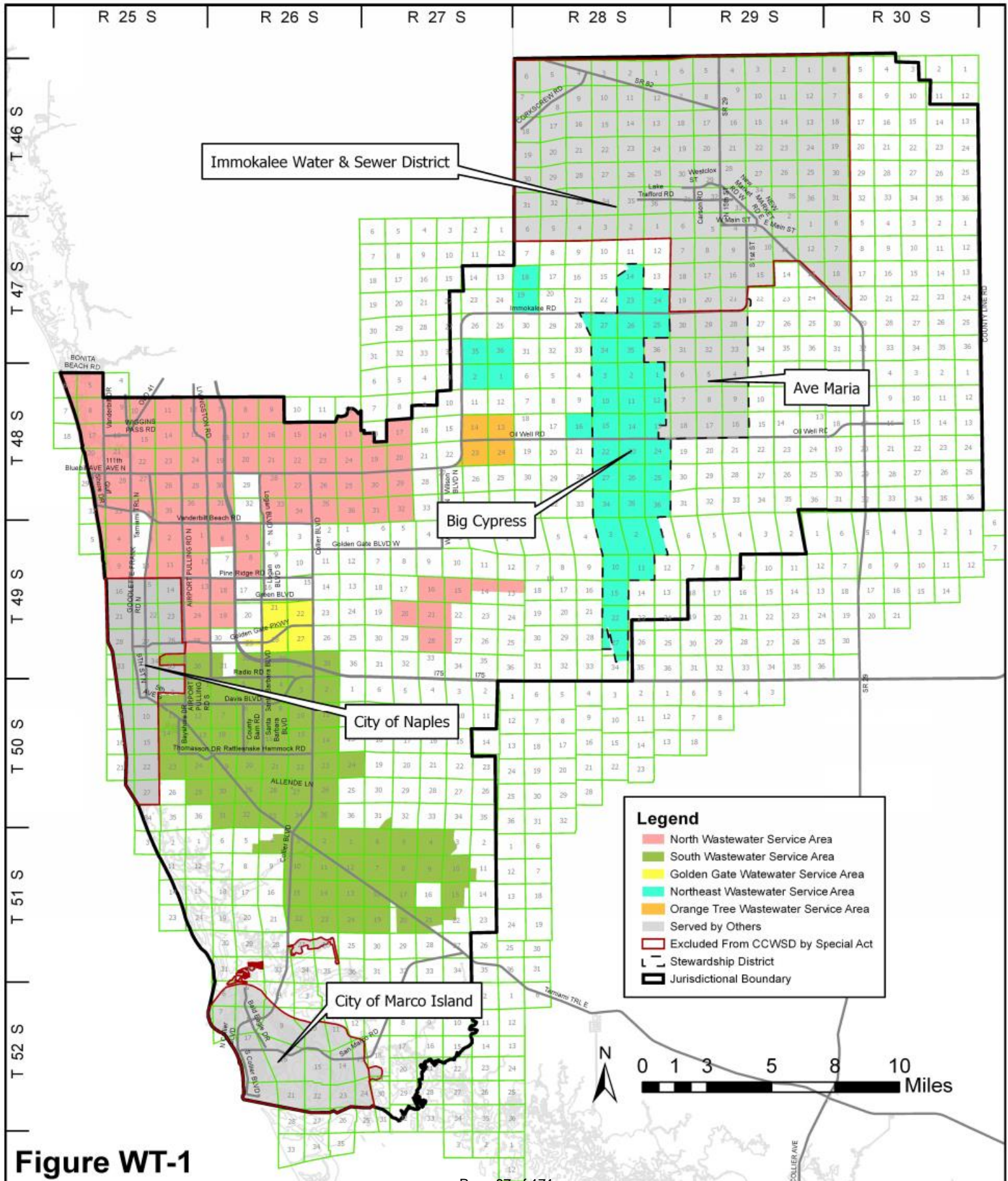
That the BCC find the Collier County Water-Sewer District Wastewater Treatment System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2019 CCWSD Wastewater Treatment Facilities AUIR and adopt the CIE Update for FY20-FY24.

Conclusion:

To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects should commence in FY22 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

- (1) Per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan (reference 2015 AUIR, Appendix III).
- (2) The CIE is consistent with the Board-approved FY20 budget.
- (3) As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses

Collier County Water-Sewer District Current and Future Wastewater Service Areas (2019 AUIR)



Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The Public Utilities Department's (PUD's) proposed 2019 CCWSD Wastewater System Treatment Facilities AUIR is based on permanent population estimates and projections for the CCWSD's wastewater service areas prepared by the Collier County Comprehensive Planning Section on June 24, 2019. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2029.

The BEBR population numbers are supplemented by estimates per the implementation plan for the Golden Gate City service area, as reported in the "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate" prepared by Stantec Consulting Services Inc., and by results from the Collier Interactive Growth Model for the planned developments in the expanded Northeast Service Area.

Notes

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "jurisdictional boundary" is depicted on the subsequent map entitled, "Collier County Water-Sewer District Water Service Jurisdiction," and encompasses the planned developments known at that time as "Rural Lands West," "Winchester Lakes," and "Hogan Island Village," as depicted on the subsequent map entitled, "Future Development in Northeast Collier County." The population, demand, and treatment capacity projections for these future developments are included in this report.
- C. To serve the Orangetree and Orange Blossom Ranch PUDs, 0.375 MGD of new treatment capacity will be needed by FY 2021. This will be achieved through Class I process reliability expansion of the Northeast Sub-Regional (former Orangetree) Wastewater Treatment Plant. (The Orangetree PUD includes Waterways of Naples, Orangetree, Valencia Lakes, Neighborhood Shoppes at Orangetree, and Valencia Golf & Country Club as well as the Corkscrew Elementary/Middle and Palmetto Ridge High campuses.)
- D. The new regional water reclamation facility at the Northeast Utility Facilities (NEUF) site will support forecasted growth in the northeast region of the county. The population, flow, and treatment capacity projections for these future developments are addressed in this AUIR cycle as a separate service area. The NEUF is sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2018-2019). Design-build construction of a 1.5 MGD interim WWTP and associated pipelines began in 2019, due to be complete in 2021. This will be followed by a 4 MGD initial phase of the Northeast Water Reclamation Facility (NEWRF) to be online by FY 2026, depending on developer commitments. The addition of a third water reclamation facility provides the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging flows to the existing two plants and will allow for rehabilitation and replacement.

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook") which compares available treatment capacity to the quantity of Board-approved planned unit developments (PUDs). Currently, the Checkbook reports that if all active Board-approved PUDs were to be constructed, there would be 18% remaining capacity at the North County Water Reclamation Facility (NCWRF) while the South County Water Reclamation Facility (SCWRF) would have a 42% deficit.

- E. The Public Utilities Department has negotiated with AECOM Technical Services, Inc. to prepare new, individual master plans for water, wastewater, and irrigation quality water under RPS 18-7370, with completion anticipated in FY 2021.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The 2019 Wastewater System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2020 and FY 2021, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

Recommendation

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2019 CCWSD Wastewater System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/5/2019

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. TDADF Diverted to NCWRF MGD	Required Treatment Capacity at SCWRF MGD	Percent of Permitted Capacity at Max. MADF MGD
2015	93,735	14.1		16.00	1.9		14.1	70%
2016	96,338	14.5		16.00	1.5		14.5	72%
2017	98,180	14.7		16.00	1.3		14.7	74%
2018	100,021	15.0		16.00	1.0		15.0	75%
2019	102,609	15.4		16.00	0.6		15.4	77%
2020	105,371	15.8		16.00	0.2		15.8	79%
2021	107,401	16.1		16.00		0.1	16.0	81%
2022	109,142	16.4		16.00		0.4	16.0	82%
2023	110,924	16.6		16.00		0.6	16.0	83%
2024	112,745	16.9		16.00		0.9	16.0	85%
2025	114,608	17.2		16.00		1.2	16.0	86%
2026	116,280	17.4		16.00		1.4	16.0	87%
2027	117,515	17.6		16.00		1.6	16.0	88%
2028	118,777	17.8		16.00		1.8	16.0	89%
2029	120,068	18.0		16.00		2.0	16.0	90%

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/5/2019

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 24, 2019. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2029. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas. The portion taken from the south wastewater service area is 47 percent.

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 100 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 100 gpcd is the established Level of Service (LOS) Standard for the South Service Area, as adopted in the 2015 CCWSD Wastewater Treatment Systems AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a max. TDADF basis for capacity analysis.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion, as follows:

Fiscal Year	New Treatment Capacity	Comments
NA	0	The SCWRF site is built-out.

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year with no deduction for the largest unit being out of service given that the SCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

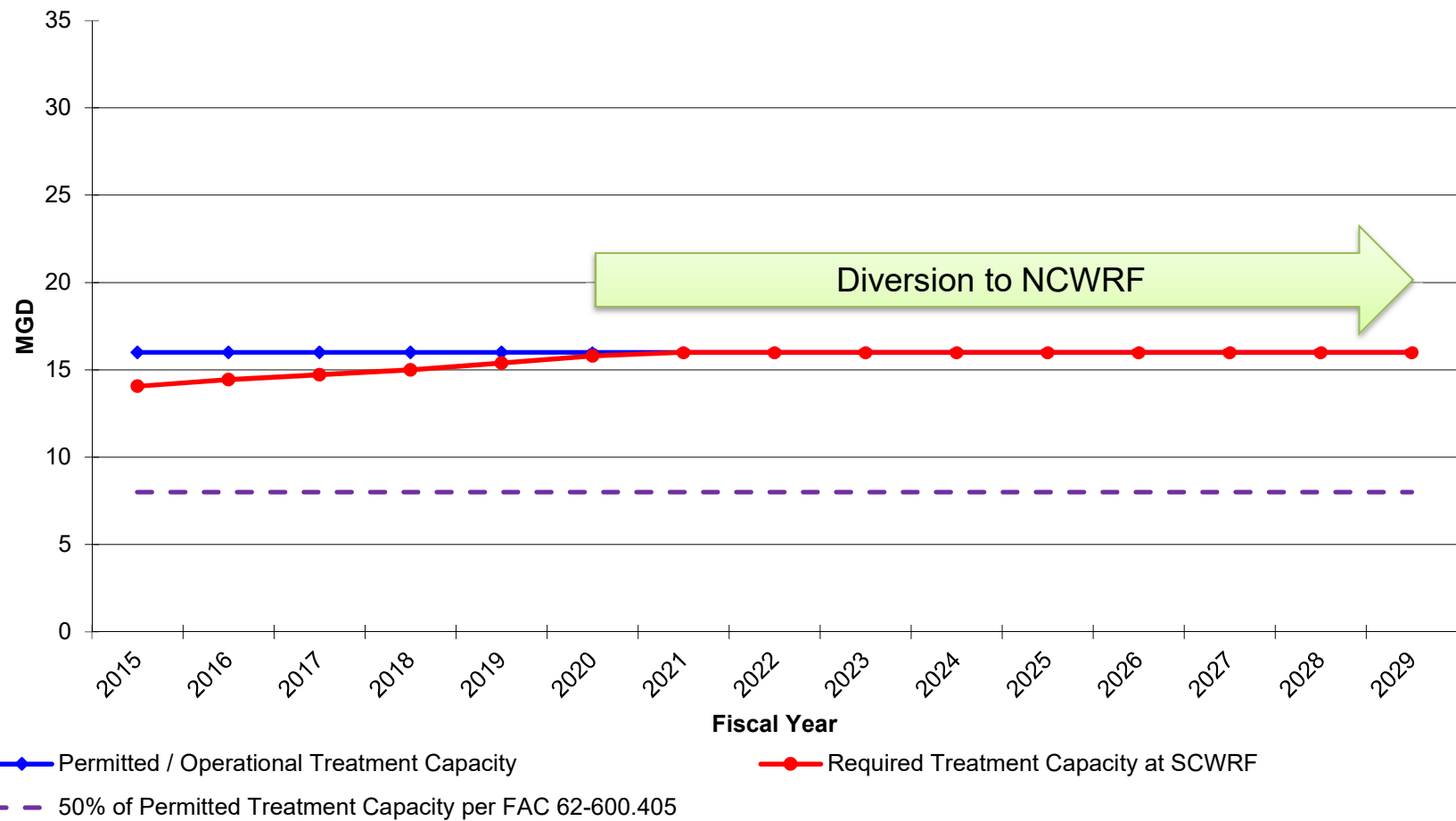
In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF). Any deficit in operational treatment capacity is countered by diverting flow to the NCWRF.
7. Max. TDADF Diverted to NCWRF is the max. TDADF that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at SCWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) less the Max. TDADF Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA
LOS: 100 gpcd**

9/5/2019



Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/5/2019

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF)	New Treatment Capacity	Permitted / Operational Treatment Capacity	Retained Operational Treatment Capacity	Max. TDADF Diverted to NCWRF	Required Treatment Capacity at NCWRF	Percent of Permitted Capacity at Max. MADF
		MGD	MGD	MGD	MGD	MGD	MGD	MGD
2015	109,886	16.5		24.10	7.6		16.5	55%
2016	112,505	16.9		24.10	7.2		16.9	56%
2017	115,436	17.3		24.10	6.8		17.3	57%
2018	122,980	18.4		24.85	6.4		18.4	59%
2019	138,395	20.8		26.35	5.6		20.8	63%
2020	141,539	21.2		26.35	5.1		21.2	64%
2021	143,848	21.6	0.375	26.73	5.1	0.1	21.7	65%
2022	145,827	21.9		26.73	4.9	0.4	22.2	65%
2023	147,854	22.2		26.73	4.5	0.6	22.8	66%
2024	149,925	22.5		26.73	4.2	0.9	23.4	67%
2025	152,045	22.8		26.73	3.9	1.2	24.0	68%
2026	153,946	23.1		26.73	3.6	1.4	24.5	69%
2027	155,350	23.3		26.73	3.4	1.6	24.9	70%
2028	156,783	23.5		26.73	3.2	1.8	25.3	70%
2029	158,251	23.7		26.73	3.0	2.0	25.7	71%

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/5/2019

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 24, 2019. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2029. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Orangetree wastewater service area beginning in FY 2018 and the Golden Gate wastewater service area beginning in FY 2019 based on acquisition dates during FY 2017 and FY 2018 respectively. The Golden Gate wastewater service area (approximately 4 square miles) presently includes a population of approximately 12,404 residents in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 3 will increase the population served to 15,000 within 20 years.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas. The portion taken from the north wastewater service area is 53 percent.

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 100 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 100 gpcd is the established Level of Service (LOS) Standard for the North Service Area, as adopted in the 2015 CCWSD Wastewater Treatment Systems AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a max. TDADF basis for capacity analysis.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2021	0.375 MGD	\$5M expansion to the NE Utility WWTP (formerly OTU) to sustain sewer service to existing and future customers in the Orangetree and Orange Blossom Ranch PUDs beginning in FY 2020 through FY 2027.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/5/2019

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

Capacity increased in FY 2018 because Orangetree Utilities (OTU) was integrated into the CCWSD during FY 2017. Integrated assets include a 0.75 MGD (as currently sited) wastewater treatment plant that will continue operation.

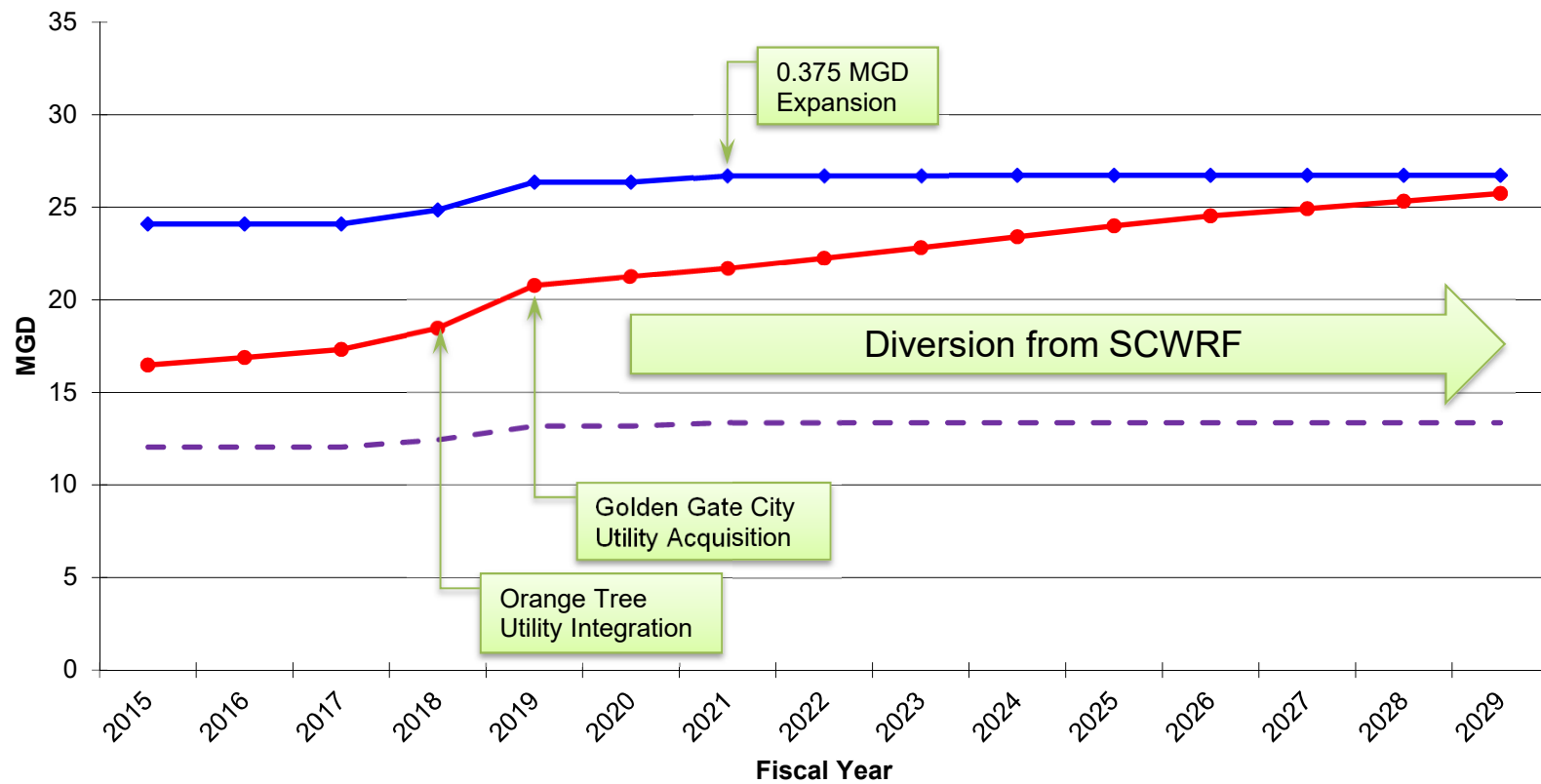
Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority occurred on March 1, 2018. Acquired assets include a 1.5 MGD wastewater treatment plant that will continue operation.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF).
7. Max. TDADF Diverted to NCWRF is the max. TDADF that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at NCWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) plus the Max. TDADF Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**
LOS: 100 gpcd

9/5/2019



—◆— Permitted / Operational Treatment Capacity

—●— Required Treatment Capacity at NCWRF

--- 50% of Permitted Treatment Capacity per FAC 62-600.405

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/5/2019

1	2	3	4	5	6	7	8
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Required Treatment Capacity at NEWRF MGD	Percent of Permitted Capacity at Max. MADF MGD
2015							
2016							
2017							
2018							
2019							
2020							
2021	351	0.1	1.5	1.50	1.4	0.1	3%
2022	1,028	0.2		1.50	1.3	0.2	8%
2023	1,699	0.3		1.50	1.2	0.3	14%
2024	2,375	0.4		1.50	1.1	0.4	19%
2025	3,046	0.5		1.50	1.0	0.5	24%
2026	3,723	0.6	4	5.50	4.9	0.6	8%
2027	4,914	0.7	-1.5	4.00	3.3	0.7	15%
2028	6,109	0.9		4.00	3.1	0.9	18%
2029	7,300	1.1		4.00	2.9	1.1	22%

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/5/2019

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Projections for the future northeast wastewater service area were obtained from the Collier Interactive Growth Model (CIGM) for the zones comprising the four planned developments--Hyde Park Village (FKA Winchester Lakes, FKA Collier Lakes), Rivergrass Village (FKA Rural Lands West), Immokalee Road Rural Village (FKA SR 846 Land Trust), and Hogan Island Village. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas (53 percent and 47 percent respectively).

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 100 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 100 gpcd is the established Level of Service (LOS) Standard for the North Service Area, as adopted in the 2015 CCWSD Wastewater Treatment Systems AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a max. TDADF basis for capacity analysis.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2021	1.5 MGD	\$28M interim WWTP, storage tanks and associated pipelines at the NEUF site to facilitate development in the northeast region of the county, outside the Orangetree and Orange Blossom Ranch PUDs, beginning in FY 2019 through FY 2021
2026	4 MGD	\$114M Northeast Water Reclamation Facility (NEWRF) at the Northeast Utility Facilities site to sustain sewer service to customers in the new developments proposed in the Northeast Service Area, outside the Orangetree and Orange Blossom Ranch PUDs, beginning in FY 2022, to be online by FY 2026
2026	-1.5 MGD	The interim WWTP at the NEUF site will be decommissioned once the 4 MGD NEWRF is operational. Equipment taken offline will be repurposed or sold.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/5/2019

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NEWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

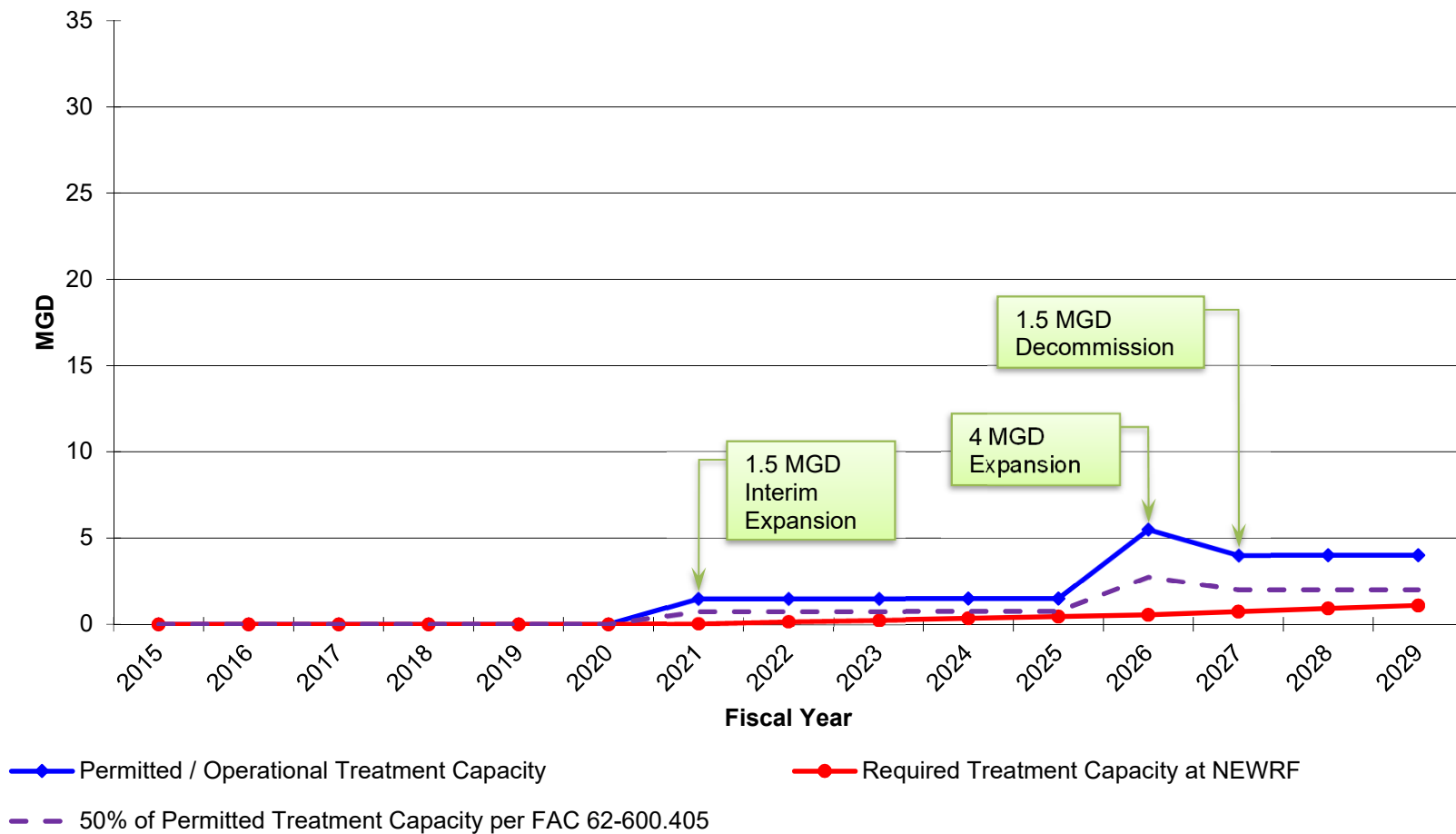
In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF).
7. Required Treatment Capacity at NEWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) and is plotted in the chart on the next page.
8. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**
LOS: 100 gpcd

9/5/2019



Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

9/5/2019

The following four areas will have future constrained wastewater conveyance capacity based on current growth patterns. The plan to address each constraint is discussed below and shown on the following "Wastewater Collection/Transmission System Constraints Map" map.

City Gate PUD/Activity Center #9

Background:

The original design of wastewater transmission facilities along Davis Boulevard did not anticipate service to the areas north of I-75. Proposed growth in Activity Center #9 and the surrounding area may require additional conveyance and treatment capacity.

Status:

A new force main was designed in FY 2019 along Magnolia Pond Drive to the Golden Gate City Wastewater Treatment Plant to provide the needed transmission capacity.

Future Actions:

Construct the required improvements in summer 2020.

Ensure adequate capacity to Activity Center #9, including Phase 2 of the sports complex.

Immokalee Road & Collier Blvd

Background:

To make full use of the capacity of the North County Water Reclamation Facility (NCWRF) for wastewater service to the growing northeast region of Collier County, the 2014 Master Plan/CIP Plan recommended construction of a 24" force main from a new master pump station (MPS 167) at Heritage Bay west along Immokalee Road, then south along Logan Boulevard, then east a short distance along Vanderbilt Beach Road to MPS 104. Once completed, these improvements will relieve the burden on the 12" force main along Immokalee Road, which has become constrained due to extensive development of the corridor.

MPS 167, located at the south end of Heritage Bay Commons Tract G, serves as a wastewater booster pump station for the Heritage Bay PUD and current and future developments along Collier Blvd and east of Collier Blvd along Immokalee Road. MPS 167 currently routes wastewater to the NCWRF but will ultimately provide the flexibility to route wastewater to the future NEWRF.

Status:

A design-build contract for a force main from MPS 167 to MPS 104 was awarded in 2019.

Future Actions:

Complete the 24" force main in mid-FY 2020.

Collier County Government
Public Utilities Department
2019 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

9/5/2019

Western Interconnect

Background:

A western interconnect is needed to manage growth in the south wastewater service area and to facilitate maintenance of existing force mains. A series of force main extensions and improvements to PS 309.09 are needed to move wastewater flows from the south wastewater service area to the north wastewater service area, where there is available treatment capacity. The force main along Livingston Road is divided into ten phases generally extending from Radio Road to Immokalee Road.

Status:

Five phases were previously constructed ahead of development activity, Phase 2 commenced construction in FY 2019, Phases 6B and 6C are planned for construction in FY 2020, and Phases 7 and 8 as well as PS 309.09 are planned for FY 2020-2021. After Phase 8, the Western Interconnect will be functional at less than maximum capacity. The final Phase 9 is

Future Actions:

Construct the remaining three phases in FY 2020-2022 at an estimated cost of \$10M.

New Master Pump Station 101.12 (Naples Park)

Background:

MPS 101.00 currently serves areas north and south of 111th Avenue N. The new MPS 101.12 allow the area to be divided such that MPS 101.00 will serve north of 111th Avenue N., and MPS 101.12 will serve the area south, which includes Naples Park. A new gravity main and force main connected to MPS 101.12 will allow greater wastewater flows to be conveyed from the constrained Naples Park area.

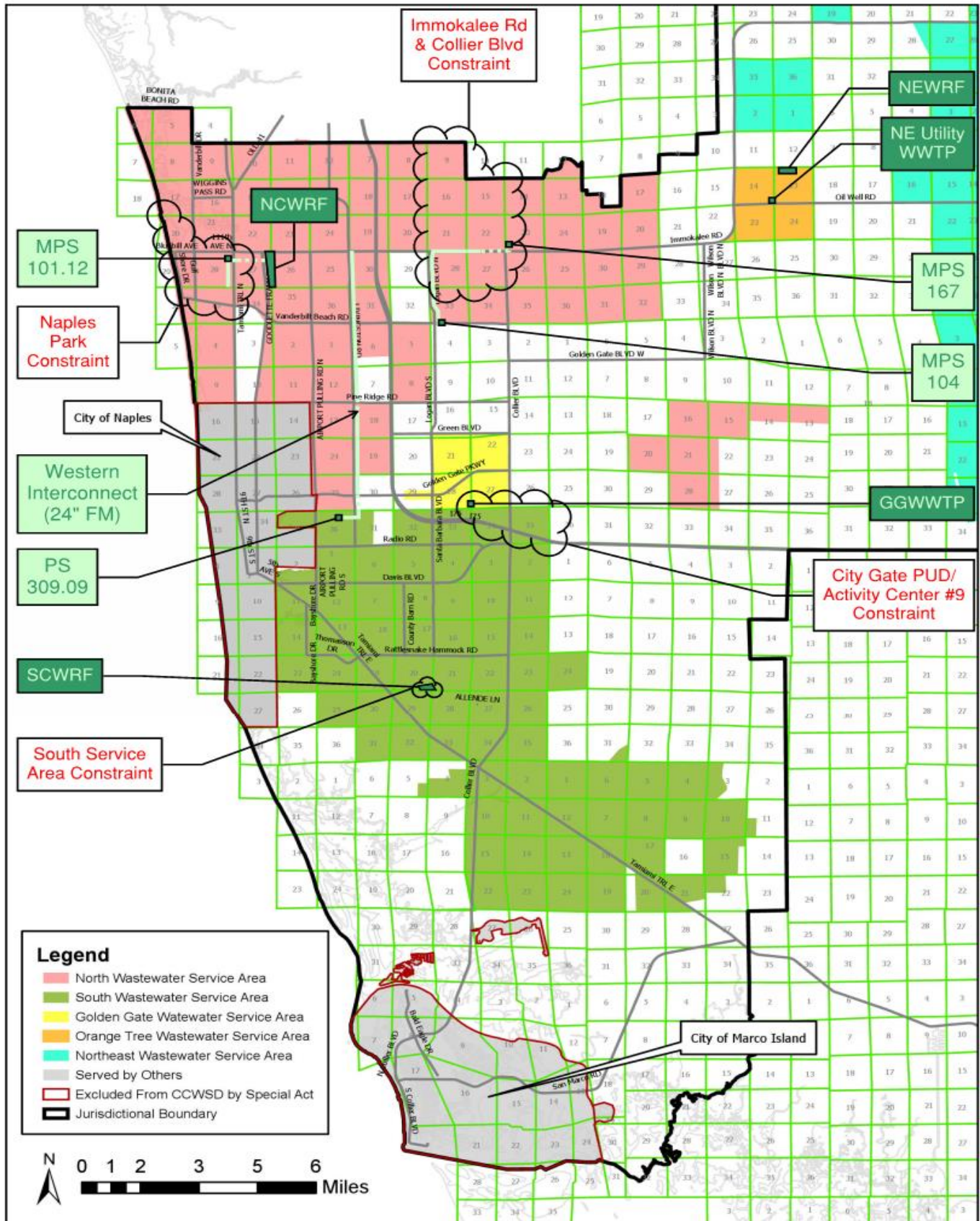
Status:

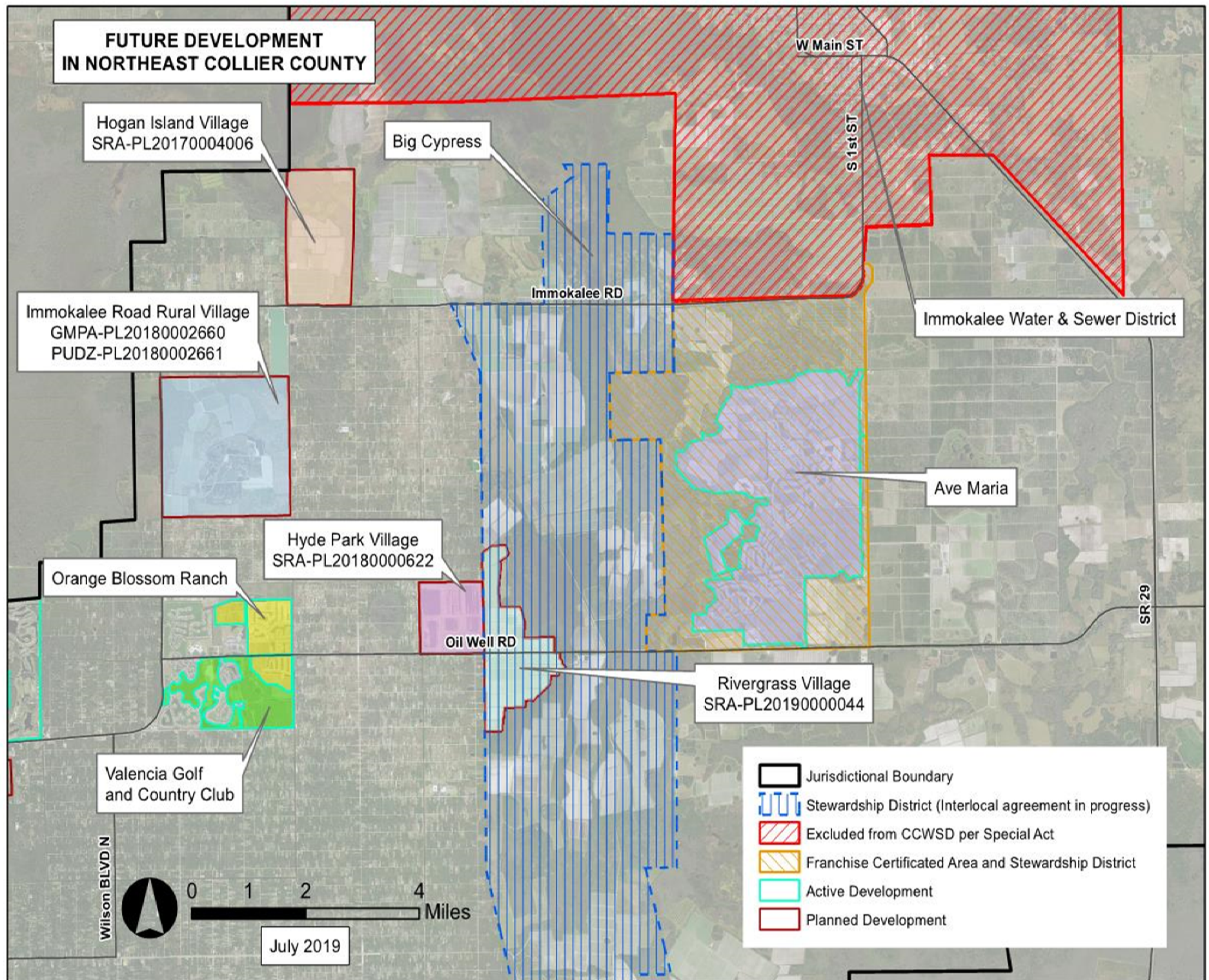
As part of the Basin 101 Program, the needed infrastructure has been designed. The project was put on hold while funds were loaned for the Hurricane Irma debris mission.

Future Action:

Construct MPS 101.12 and associated piping in FY 2021-2022, at an estimated cost of \$15M.

Wastewater Collection/Transmission System Constraints





COLLIER COUNTY WATER - SEWER DISTRICT
SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")
REGIONAL WASTEWATER SYSTEMS
DATA: Current as of August 15, 2019

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL DATA)

- 1a. Existing Permitted Plant Capacity (MADD for Water, MADF for Wastewater)
- 1b. Existing Operational Plant Capacity (per 2018 AUIR)
- 2a. Historical Maximum 3-Day Average Daily Demand/Flow (TDADD/TDADF) [2]
- 2b. Historical Maximum Month Average Daily Demand/Flow (MADD/MADF) [3]
- 3a. Diverted Flow (TDADF) [4]
- 3b. Diverted Flow (MADF) [4]
- 4a. Current Available Diminishing Capacity Based on Max. 3-Day (Line 1b - Line 2a - Line 3a)
- 4b. Current Available Diminishing Capacity Based on Max. Month (Line 1b - Line 2b - Line 3b)

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

- 5a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 4a / Line 1b)**
- 5b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 4b / Line 1b)**

PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)

- 6. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List) [5]
- 7a. Projected Available Capacity Based on Max. 3-Day (Line 4a - Line 6)
- 7b. Projected Available Capacity Based on Max. Month (Line 4b - Line 6)

CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

- 8a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 7a / Line 1b)**
- 8b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 7b / Line 1b)**

Million Gallons per Day (MGD)

WASTEWATER [1]	
NORTH	SOUTH
24.100	16.000
24.100	16.000
16.734	17.313
12.105	9.944
0.092	n/a
0.060	n/a
7.274	(1.313)
11.935	6.056

30%	-8%
50%	38%

Million Gallons per Day (MGD)

WASTEWATER [1]	
NORTH	SOUTH
3.038	5.432
4.236	(6.745)
8.896	0.624

18%	-42%
37%	4%

COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

REGIONAL WASTEWATER SYSTEMS

DATA: Current as of August 15, 2019

FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS AND DIVERSIONS)

- 9a. Expansions Within Next 12 Months (MADD for Water, MADF for Wastewater)
- 9b. Expansions Within Next 12-24 Months (MADD for Water, MADF for Wastewater)
- 10a. Excess Flow Diverted to (from) WWTP for Max. 3-Day [6] [7]
- 10b. Excess Flow Diverted to (from) WWTP for Max. Month [6] [7]
- 11a. Future Available Capacity Based on Max. 3-Day (Line 7a + Line 9a + Line 9b - Line 10a)
- 11b. Future Available Capacity Based on Max. Month (Line 7b + Line 9a + Line 9b - Line 10b)

Million Gallons per Day (MGD)

WASTEWATER [1]	
NORTH	SOUTH
0.000	0.000
0.000	0.000
3.106	(2.700)
0.149	0.000
1.130	(4.045)
8.747	0.624

FUTURE AVAILABILITY WITH EXPANSIONS AND DIVERSIONS

- 12a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1b)**
- 12b. **SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 11b / Line 1b)**

5%	-25%
36%	4%

FOOTNOTES/QUALIFIERS:

- [1] Wastewater North and South shown separately because of the finite capacity of the interconnect.
- [2] Line 2a: Mo-Yr of Max. 3-Day Since January 2003 =>
- [3] Line 2b: Mo-Yr of Max. Month Since January 2003 =>
- [4] The sub-regional Northeast Utility Facilities (former OTU) previously served all customers in the Orangetree and Orange Blossom Ranch PUDs as well as the Twin Eagles subdivision, but all former OTU customers have been transferred to the regional potable water system as of August 13, 2018, and flow from Twin Eagles will be diverted to the NCWRF wastewater collection/transmission system by April 2019. Since the historical max. wastewater flows occurred prior to any services being transferred, values are reduced by eleven percent (11%) based on billing data from September 2017, the month in which the maximums occurred.
- [5] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the latest master plan.
- [6] Peak flows and effluent will be diverted to the NCWRF by the 0.75 MGD OT pump station and Oil Well Road force main; Heritage Bay master pump station; and new and existing force mains along Oil Well Rd, Immokalee Rd, Logan Blvd, Vanderbilt Beach Rd, and Goodlette-Frank Rd.
- [7] Per the 2014 master plan, a maximum of 2.7 MGD can be diverted from the south service area to the NCWRF upon completion of the East and West Interconnects and associated pump station improvements.

Aug-17	Sep-03
Feb-19	Jan-16

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2020-2024

PUD

WASTEWATER TREATMENT SYSTEM PROJECTS								
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2020	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT TOTAL
	Debt Service		\$11,447,500	\$11,413,500	\$10,849,500	\$9,053,000	\$9,050,500	\$51,814,000
	Expansion Related Projects - Other		\$0	\$0	\$114,400,000	\$0	\$0	\$114,400,000
	Replacement & Rehabilitation Projects - Other		\$28,340,600	\$30,750,000	\$30,700,000	\$28,675,000	\$29,695,000	\$148,160,600
	Departmental Capital		\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,095,000	\$3,075,000	\$3,070,000	\$2,868,000	\$2,970,000	\$14,078,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$42,678,100	\$46,049,500	\$159,846,500	\$41,440,000	\$42,576,500	\$332,590,600

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
B1 - Bonds	\$0	\$0	\$114,400,000	\$0	\$0	\$114,400,000
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
REV - Rate Revenue	\$35,283,100	\$38,638,500	\$38,019,500	\$33,996,000	\$35,115,500	\$181,052,600
REVENUE TOTAL	\$42,678,100	\$46,049,500	\$159,846,500	\$41,440,000	\$42,576,500	\$332,590,600

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:

FY 2020 is obtained from the 2020 Proposed Budget.

FY 2021 to FY 2024 are estimated project costs.

Department Capital:

FY 2020 is obtained from the 2020 Proposed Budget, split 50/50 between Water and Wastewater.

FY 2021 to FY 2024 are 2% increases over each fiscal year (pursuant to CPI adjustments per Board policy).

Debt Service:

All years are obtained from the Collier County Water-Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects:

As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY20 budget

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2025 - 2029

PUD

WASTEWATER PROJECTS								
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2020	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT TOTAL
	Debt Service		\$8,767,000	\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$38,910,000
	Expansion Related Projects - Other		\$0	\$0	\$0	\$0	\$0	\$0
	Replacement & Rehabilitation Projects - Other		\$29,885,000	\$31,440,000	\$29,930,000	\$29,430,000	\$31,430,000	\$152,115,000
	Departmental Capital		\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,989,000	\$3,144,000	\$2,993,000	\$2,943,000	\$3,143,000	\$15,212,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$42,519,000	\$43,470,000	\$41,008,500	\$40,252,500	\$43,558,000	\$210,808,000

REVENUE KEY - REVENUE SOURCE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
B1 - Bonds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
REV - Rate Revenue	\$35,041,000	\$35,974,000	\$33,494,500	\$32,720,500	\$36,007,000	\$173,237,000
REVENUE TOTAL	\$42,519,000	\$43,470,000	\$41,008,500	\$40,252,500	\$43,558,000	\$210,808,000

NOTE: Figures provided for years six through ten are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

SOLID WASTE DISPOSAL FACILITIES

CONTENTS

- **SOLID WASTE DISPOSAL FACILITIES – SUMMARY**
- **INTRODUCTION**
- **TABLE 1 – COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TEN YEARS OF PERMITTED LANDFILL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITA DISPOSAL RATE, INC. NOTES**
- **CHART 1 – TEN YEARS OF PERMITTED LANDFILL CAPACITY**
- **TABLE 2 – COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TWO YEARS OF LINED CELL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITAL DISPOSAL RATE, INC. NOTES**
- **CHART 2 – TWO YEARS OF LINED CELL CAPACITY**
- **SOLID WASTE DISPOSAL FACILITIES SCHEDULES OF CAPITAL IMPROVEMENTS**

2019 AUIR SUMMARY

SOLID WASTE DISPOSAL FACILITIES

Facility Type: Solid Waste Disposal Facilities

Level of Service (LOS) Standard: The Solid and Hazardous Waste Management Division shall guarantee disposal needs for at least the next 10 years and consistently maintain two (2) years of lined cell capacity in the Collier County Landfill (CCLF). This LOS is maintained with a life of site agreement with Waste Management Inc. of Florida (WMIF.) for the design, build, and operation of the CCLF, and includes transfer agreement for up to 900 tons per day. Additionally, a separate Disposal Capacity allows for 930,000 tons (~4 years) of disposal capacity at an out of County location (See Contract Management).

The Solid and Hazardous Waste Management Division continues to meet the current disposal needs of Collier County; and plan for the long term solid and hazardous waste needs of Collier County with initiatives from the Integrated Solid Waste Management Strategy (approved by the BCC, 2006), including, but not limited to the guiding principle to preserve airspace through use of the following components:

- Source Reduction
- Material Reuse and Recycling
- Diversion
- Optimizing Existing Assets and Resources

CCLF Capacity:

Total Permitted Landfill Capacity Remaining, 2019 ^[1]	13,547,175 Tons
Total Lined Cell Capacity Remaining, 2019 ^[1]	575,700 Tons
Estimated Life of Landfill ^[2]	42 Years or 2061
Estimated Ten Years of Permitted Capacity Remaining	2051
Initiate Siting of New Landfill ^[3]	2041

BOTTOM LINE:

The 2019 AUIR shows a difference in 8 years from the 2018 AUIR. This 2019 AUIR recognizes the Disposal Capacity Agreement is reserved capacity at an out of County Landfill, Okeechobee specifically.

Footnotes:

^[1] Using the projected per capita disposal rate based on historical data as applied to projected population growth. Represents the estimated remaining capacity for the fiscal year ending September 30, 2019.

^[2] Based on the current estimate of landfill capacity and the projected disposal of 13.6 million tons over the forecast period, as shown in Table 1 of this report. Of note, the 2018 AUIR estimated the landfill life at 2069 or 51 years. The eight year difference in landfill life is a result of recognizing capacity utilized from the Disposal Agreement (see Contract Management and Landfill Airspace Preservation). Another key component is the use of a conservative compaction factor for cubic yard to tonnage conversion (refer to Table 1 footnotes).

^[3] Planning assumption allows for a ten (10) year period to site and permit a new landfill. This assumes that the County would have additional permitted capacity by or before 2051 when the County is expected to reach the minimum LOS for maintaining ten years of permitted capacity under existing conditions.

Contract Management:

Landfill Operating Agreement (LOA)

The Collier County Landfill is financed and operated under a design/build/operate Landfill Operating Agreement (LOA) with Waste Management Inc. of Florida (WMIF). The LOA also includes the management of the County's transfer station, located in Immokalee. In accordance with the LOA, all landfill operating expenses incurred, including cell construction, permitting and closure care are funded by WMIF. LOA expenses are paid from revenue generated from tipping fees.

Under the LOA:

- No debt is carried by Collier County
- Design/build/operate provisions ensure proper cell capacity
- The Contractor maintains environmental liability
- Allows for 900 tons per day of waste transfer from CCLF to Okeechobee Landfill

Disposal Capacity Agreement

Waste collected in District II is transferred from the Immokalee transfer station to Okeechobee Landfill. This agreement allows for 930,000 tons of capacity (or ~4 years of capacity) at the out of County landfill.

Landfill Airspace Preservation:

1. The LOA includes a 900 tons per day (TPD) allowance for the transportation and disposal of waste from the Collier County Landfill to Okeechobee Landfill (Amendment #2; June 12, 2001).
2. Collier County maintains a separate Disposal Capacity Agreement with Okeechobee Landfill ("Agreement"; June 12, 2001) for approximately 930,000 tons (~4 years) of contracted disposal capacity at the Okeechobee Landfill, specifically, capacity is allocated for biosolids and waste transferred from the Immokalee Transfer Station (ITS).

RECOMMENDED ACTION:

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners find the 2019 AUIR in compliance with concurrency requirements in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and continue to support the Division's Integrated Solid Waste Strategy initiatives to increase recycling to reach the 75% State goal, to divert recyclables and hazardous waste from the Collier County Landfill, and obtain appropriate means and methods of the various waste streams to support the needs of Collier County.

Collier County Government Public Utilities Division
2019 Annual Update and Inventory Report (AUIR)

COLLIER COUNTY LANDFILL DISPOSAL CAPACITY

FUTURE AUIR PLANNING:

Based on federal, state, and local regulations, siting, permitting, and construction of a new landfill is estimated to take at least ten years. Recognizing that the County Land Development Code Ordinances requires a minimum reserve of 10 years of permitted capacity and assuming procurement needs are established, it is recommended a new landfill be sited by at least 2041 to allow for permitting and construction, as well as, to maintain compliance with County policy and ensure future needs are met.

Research alternative methods of disposal, as well as, waste reduction and recycling.

Execute LOA contract language to transfer up to 900 TPD.

Analyze waste flows within Districts for tonnage delivered to ITS versus Collier County Landfill.

The Solid and Hazardous Waste Management Division reached a milestone, achieving a recycling rate of 68% in 2017, as reported by FDEP. In addition, Collier County has ranked 5th in traditional recycling in comparison to other Florida Counties in 2018.

The national award winning Household Hazardous Waste Program collected approximately two (2) million pounds of household hazardous waste, contributing to the diversion rate of 88% in Fiscal Year 2018.

The Recycling Drop-off Centers have served 69,052 customers of Collier County and the new Northeast Recycling Drop-off Center opened in December of 2018. Those assets in fair condition shall be re-evaluated for the next 2020 AUIR. Any asset that did not include its Division managed pump station shall be evaluated.

The Solid and Hazardous Waste Management Division continue to follow and update the Board approved Integrated and Solid Waste Management Strategy to comply with the Growth Management Plan and work to derive and implement long term sustainable disposal goals.

2019

Solid Waste Disposal Facilities

APPENDIX A

Population Charts

APPENDIX A: COLLIER COUNTY PERMANENT POPULATION ESTIMATES and PROJECTIONS

	estimates	estimates	estimates	estimates	estimates	estimates	estimates	estimates	projections	projections
	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018
COUNTYWIDE TOTAL	257,926	322,653	326,817	331,756	335,223	340,293	347,002	353,836	362,409	371,171
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	309,511	387,183	392,180	398,107	402,268	408,351	416,402	424,603	434,890	445,405
District 1 Population	234,780	293,387	295,876	299,207	301,791	305,746	311,121	316,673	323,548	330,796
District 1 Peak Population	281,736	352,064	355,051	359,048	362,149	366,895	373,345	380,007	388,257	396,955

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
COUNTYWIDE TOTAL	378,897	386,234	393,165	400,220	407,402	414,712	421,421	427,508	433,683	439,946
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	454,676	463,481	471,798	480,264	488,882	497,655	505,706	513,010	520,419	527,935
District 1 Population	337,530	343,931	349,983	356,144	362,413	368,795	374,656	379,978	385,376	390,851
District 1 Peak Population	405,035	412,717	419,980	427,373	434,896	442,554	449,587	455,974	462,451	469,021

	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
COUNTYWIDE TOTAL	446,300	452,013	457,068	462,178	467,347	472,572	477,322	481,584	485,885	490,224
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	535,560	542,416	548,481	554,614	560,816	567,087	572,786	577,901	583,062	588,269
District 1 Population	396,404	401,406	405,842	410,327	414,861	419,445	423,660	427,443	431,261	435,112
District 1 Peak Population	475,685	481,688	487,010	492,392	497,833	503,334	508,392	512,932	517,513	522,135

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
COUNTYWIDE TOTAL	494,601	498,701	502,517	506,362	510,237	514,141	518,075	522,039	526,033	530,058
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	593,522	598,441	603,020	607,634	612,284	616,969	621,690	626,446	631,239	636,069
District 1 Population	438,997	442,636	446,023	449,436	452,875	456,340	459,831	463,349	466,894	470,466
District 1 Peak Population	526,797	531,163	535,227	539,323	543,450	547,608	551,797	556,019	560,273	564,560

	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
COUNTYWIDE TOTAL	534,113	538,200	542,318	546,467	550,649	554,862	559,107	563,385	567,696	572,039
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	640,936	645,840	650,782	655,761	660,778	665,834	670,929	676,062	681,235	686,447
District 1 Population	474,066	477,693	481,347	485,030	488,741	492,480	496,248	500,044	503,870	507,725
District 1 Peak Population	568,879	573,231	577,617	582,036	586,489	590,976	595,497	600,053	604,644	609,270

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068
COUNTYWIDE TOTAL	576,416	580,827	585,271	589,749	594,261	598,808	603,390	608,006	612,658	617,346
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	691,699	696,992	702,325	707,698	713,113	718,570	724,068	729,608	735,190	740,815
District 1 Population	511,610	515,524	519,468	523,442	527,447	531,482	535,549	539,646	543,775	547,935
District 1 Peak Population	613,932	618,629	623,362	628,131	632,936	637,779	642,658	647,575	652,529	657,522

notes:

- 1) These estimates and projections are based upon the spreadsheet of permanent population prepared for April 1, 2000 and 2010-2030.
 - 2) Estimates and projections are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island.
 - 3) Some of the Totals may not equal the sum of the individual figures due to rounding.
 - 4) District 1 population includes Everglades City, Marco Island, Naples and all unincorporated areas of the County except the communities of Immokalee and
- Based on data reported by the Collier County Comprehensive Planning Section June 7, 2019.*

2019

Solid Waste Disposal Facilities

APPENDIX B

10 Year Life Capacity

APPENDIX A: COLLIER COUNTY PERMANENT POPULATION ESTIMATES and PROJECTIONS

	estimates	estimates	estimates	estimates	estimates	estimates	estimates	estimates	projections	projections
	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018
COUNTYWIDE TOTAL	257,926	322,653	326,817	331,756	335,223	340,293	347,002	353,836	362,409	371,171
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	309,511	387,183	392,180	398,107	402,268	408,351	416,402	424,603	434,890	445,405
District 1 Population	234,780	293,387	295,876	299,207	301,791	305,746	311,121	316,673	323,548	330,796
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	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
COUNTYWIDE TOTAL	378,897	386,234	393,165	400,220	407,402	414,712	421,421	427,508	433,683	439,946
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	454,676	463,481	471,798	480,264	488,882	497,655	505,706	513,010	520,419	527,935
District 1 Population	337,530	343,931	349,983	356,144	362,413	368,795	374,656	379,978	385,376	390,851
District 1 Peak Population	405,035	412,717	419,980	427,373	434,896	442,554	449,587	455,974	462,451	469,021

	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
COUNTYWIDE TOTAL	446,300	452,013	457,068	462,178	467,347	472,572	477,322	481,584	485,885	490,224
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	535,560	542,416	548,481	554,614	560,816	567,087	572,786	577,901	583,062	588,269
District 1 Population	396,404	401,406	405,842	410,327	414,861	419,445	423,660	427,443	431,261	435,112
District 1 Peak Population	475,685	481,688	487,010	492,392	497,833	503,334	508,392	512,932	517,513	522,135

	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
COUNTYWIDE TOTAL	494,601	498,701	502,517	506,362	510,237	514,141	518,075	522,039	526,033	530,058
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	593,522	598,441	603,020	607,634	612,284	616,969	621,690	626,446	631,239	636,069
District 1 Population	438,997	442,636	446,023	449,436	452,875	456,340	459,831	463,349	466,894	470,466
District 1 Peak Population	526,797	531,163	535,227	539,323	543,450	547,608	551,797	556,019	560,273	564,560

	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
COUNTYWIDE TOTAL	534,113	538,200	542,318	546,467	550,649	554,862	559,107	563,385	567,696	572,039
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	640,936	645,840	650,782	655,761	660,778	665,834	670,929	676,062	681,235	686,447
District 1 Population	474,066	477,693	481,347	485,030	488,741	492,480	496,248	500,044	503,870	507,725
District 1 Peak Population	568,879	573,231	577,617	582,036	586,489	590,976	595,497	600,053	604,644	609,270

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068
COUNTYWIDE TOTAL	576,416	580,827	585,271	589,749	594,261	598,808	603,390	608,006	612,658	617,346
Peak Population Factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peak Population	691,699	696,992	702,325	707,698	713,113	718,570	724,068	729,608	735,190	740,815
District 1 Population	511,610	515,524	519,468	523,442	527,447	531,482	535,549	539,646	543,775	547,935
District 1 Peak Population	613,932	618,629	623,362	628,131	632,936	637,779	642,658	647,575	652,529	657,522

notes:

- 1) These estimates and projections are based upon the spreadsheet of permanent population prepared for April 1, 2000 and 2010-2030.
 - 2) Estimates and projections are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island.
 - 3) Some of the Totals may not equal the sum of the individual figures due to rounding.
 - 4) District 1 population includes Everglades City, Marco Island, Naples and all unincorporated areas of the County except the communities of Immokalee and
- Based on data reported by the Collier County Comprehensive Planning Section June 7, 2019.*

Table 1: Collier County Landfill Permitted Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity at Projected Tons Per Capita Disposal Rate

1	2	3	4	5		6		7	8	9
Fiscal Year	Peak Population	Estimated Tons Per Capita Disposal Rate	Annual Tons Disposed	Total Landfill Capacity Balance (cy)		Estimated Average Compaction Rate (tons/cy)		Collier County Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons)
2010	387,183	0.54	209,277	N/A		N/A		8,857,797	2,253,542	6,604,256
2011	392,180	0.52	202,226	N/A		N/A		8,655,571	2,302,083	6,353,488
2012 [*]	398,107	0.51	203,185	N/A		N/A		18,566,434	2,353,717	16,212,717
2013	402,268	0.52	209,311	N/A		N/A		18,524,000	2,403,242	16,120,758
2014	408,351	0.53	217,938	N/A		N/A		18,186,000	2,448,271	15,737,729
2015	416,590	0.54	224,479	N/A		N/A		17,961,521	2,490,536	15,470,985
2016	424,603	0.55	233,647	N/A		N/A		18,408,274	2,804,790	15,603,484
2017	433,539	0.57	247,602	N/A		N/A		18,970,672	2,864,860	16,105,812
2018	442,240	0.59	260,416	18,386,339		N/A		18,710,256	2,916,440	15,793,817
2019	405,035	0.60	242,578	18,062,901	x	0.75	=	13,547,175	2,675,006	10,872,170
2020	412,717	0.60	247,372	17,733,071	x	0.75	=	13,299,803	2,717,947	10,581,856
2021	419,980	0.60	251,902	17,397,201	x	0.75	=	13,047,901	2,759,666	10,288,235
2022	427,373	0.60	256,512	17,055,185	x	0.75	=	12,791,389	2,800,118	9,991,271
2023	434,896	0.60	261,200	16,706,919	x	0.75	=	12,530,189	2,839,261	9,690,928
2024	442,554	0.60	265,970	16,352,293	x	0.75	=	12,264,220	2,877,049	9,387,170
2025	449,587	0.60	270,349	15,991,828	x	0.75	=	11,993,871	2,913,598	9,080,273
2026	455,974	0.60	274,324	15,626,063	x	0.75	=	11,719,547	2,948,988	8,770,559
2027	462,451	0.60	278,354	15,254,924	x	0.75	=	11,441,193	2,983,191	8,458,002
2028	469,021	0.60	282,440	14,878,337	x	0.75	=	11,158,753	3,016,173	8,142,580
2029	475,685	0.60	286,583	14,496,226	x	0.75	=	10,872,170	3,047,904	7,824,265
2030	481,688	0.60	290,314	14,109,141	x	0.75	=	10,581,856	3,078,611	7,503,244
2031	487,010	0.60	293,621	13,717,646	x	0.75	=	10,288,235	3,108,531	7,179,704
2032	492,392	0.60	296,964	13,321,694	x	0.75	=	9,991,271	3,137,646	6,853,625
2033	497,833	0.60	300,343	12,921,238	x	0.75	=	9,690,928	3,165,940	6,524,988
2034	503,334	0.60	303,758	12,516,227	x	0.75	=	9,387,170	3,193,395	6,193,776
2035	508,392	0.60	306,897	12,107,031	x	0.75	=	9,080,273	3,220,305	5,859,968
2036	512,932	0.60	309,714	11,694,078	x	0.75	=	8,770,559	3,247,013	5,523,546
2037	517,513	0.60	312,556	11,277,337	x	0.75	=	8,458,002	3,273,513	5,184,489
2038	522,135	0.60	315,423	10,856,773	x	0.75	=	8,142,580	3,299,801	4,842,779
2039	526,797	0.60	318,314	10,432,354	x	0.75	=	7,824,265	3,325,871	4,498,395
2040	531,163	0.60	321,021	10,004,326	x	0.75	=	7,503,244	3,351,927	4,151,317
2041	535,227	0.60	323,541	9,572,938	x	0.75	=	7,179,704	3,378,178	3,801,525
2042	539,323	0.60	326,079	9,138,166	x	0.75	=	6,853,625	3,404,625	3,449,000
2043	543,450	0.60	328,636	8,699,984	x	0.75	=	6,524,988	3,431,269	3,093,719
2044	547,608	0.60	331,212	8,258,368	x	0.75	=	6,193,776	3,458,112	2,735,664
2045	551,797	0.60	333,808	7,813,291	x	0.75	=	5,859,968	3,485,156	2,374,812
2046	556,019	0.61	336,422	7,364,728	x	0.75	=	5,523,546	3,512,402	2,011,143
2047	560,273	0.61	339,056	6,912,652	x	0.75	=	5,184,489	3,539,852	1,644,637
2048	564,560	0.61	341,710	6,457,039	x	0.75	=	4,842,779	3,567,508	1,275,271
2049	568,879	0.61	344,384	5,997,860	x	0.75	=	4,498,395	3,595,370	903,025
2050	573,231	0.61	347,078	5,535,090	x	0.75	=	4,151,317	3,623,441	527,876
2051	577,617	0.61	349,792	5,068,701	x	0.75	=	3,801,525	3,651,722	149,804
2052	582,036	0.61	352,526	4,598,666	x	0.75	=	3,449,000	N/A	N/A
2053	586,489	0.61	355,280	4,124,959	x	0.75	=	3,093,719	N/A	N/A
2054	590,976	0.61	358,056	3,647,551	x	0.75	=	2,735,664	N/A	N/A
2055	595,497	0.61	360,852	3,166,416	x	0.75	=	2,374,812	N/A	N/A
2056	600,053	0.61	363,669	2,681,525	x	0.75	=	2,011,143	N/A	N/A
2057	604,644	0.61	366,507	2,192,849	x	0.75	=	1,644,637	N/A	N/A
2058	609,270	0.61	369,366	1,700,362	x	0.75	=	1,275,271	N/A	N/A
2059	613,932	0.61	372,246	1,204,033	x	0.75	=	903,025	N/A	N/A
2060	618,629	0.61	375,149	703,835	x	0.75	=	527,876	N/A	N/A
2061	623,362	0.61	378,072	199,739	x	0.75	=	149,804	N/A	N/A

[*] The change in permitted capacity is due to a revision of the County's landfill permit reflecting an increase in landfill height from 100 feet to 200 feet, resulting in the addition of an estimated 9.9 million tons of disposal capacity or an estimated 30 years of additional capacity.

Table 1 Footnotes

Findings:

The 2019 Solid Waste AUIR projects that the Collier County Landfill will have zero capacity remaining in Fiscal Year 2061 representing 42 years of remaining capacity, while the 2018 Solid Waste AUIR projected the Collier County Landfill projected zero capacity remaining in Fiscal Year 2069. The loss of capacity is primarily a result of the change in methodology for calculating remaining landfill capacity as noted herein and due to recognition of the Disposal Capacity Agreement ("Agreement", June, 2001). The contract governs biosolids and District II waste.

Data prior to this FY2019 AUIR is based upon previous AUIR Reports.

NOTES: (Numerical references are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Peak Population estimates and projections for the existing service area are based on "Collier County Peak Season Population Estimates and Projections" dated June 7, 2019, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. Peak Season population is derived by increasing each year's October 1 permanent population by 20% (.20). Based upon BEBR Medium Range growth rate projections. For the purpose of the life calculations utilize population from District I. District I waste is landfilled, whereas, District II's waste is transferred from the ITS and ultimately disposed of at the Okeechobee Landfill.
3. Tons Per Capita Disposal Rate is calculated by dividing the actual or projected Annual Tons Disposed (column 4) by the Peak Population (column 2).
4. Annual Tons Disposed for the Fiscal Year 2018 is actual tonnage amount buried at the Collier County Landfill. Fiscal Year 2019 forward are derived by multiplying Peak Population (column 2) by the Tons Per Capita Disposal Rate. Impacts from Hurricane Irma devastation resulted in the addition of 11,523 annual tons disposed at the Collier County Landfill from September 2017 through December 2018.
5. Total Landfill Capacity Balance (cy) for the Fiscal Year 2018 is derived from the 2019 Airspace Utilization Report performed by Carlson Environmental Consultants, PC for the approximate calendar year of 2018. The permitted remaining capacity in cubic yards provided in this report was adjusted to a Fiscal Year basis by adding the estimated cubic yards utilized for the months of October 2018 through December 2018. Fiscal Year values in 2019 and beyond are estimated based upon the projected annual tonnage to be disposed and the County's average compaction rate.
6. Estimated Average Compaction Rate is the projected average tons disposed per cubic yard of landfill space. The Compaction Rate of 0.75 tons/cy (1,500 lbs/cy) was determined by historical average. Of note, the 2018 AUIR utilized 0.76 tons/cy for projections and previous AUIR's projections utilized compaction factors as high as 0.86 tons/CY. The larger the Compaction Rate the more airspace conserved. This value varies daily based upon waste composition, equipment, and weather.

Table 1 Footnotes (continued)

7. Collier County Landfill Capacity Balance (tons) is the previous year's Total Landfill Capacity Balance (column 7) minus Annual Tons Disposed (column 4) at the Collier County Landfill. Values prior to 2019 are from the 2018 AUIR Report. The bolded value in 2019 is based on the cubic yards available (column 5) multiplied by the compaction rate (column 6). A waste disposal agreement permits for 930,000 tons of county waste to be transferred from the Immokalee Transfer Station to Okeechobee Landfill. For the purpose of these projections it is assumed the County will renew, amend or enter into a new agreement, as necessary, continue to send waste to Okeechobee Landfill. Over the estimated landfill capacity life (2061) it is projected approximately 1,750,000 tons will be transferred from the Immokalee Transfer Station to Okeechobee Landfill.
8. Next Ten Years Landfill Capacity Requirement (tons) is the sum of the next ten years of Annual Tons Disposed (column 4) at the Collier County Landfill.
9. Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons) is the Total Landfill Capacity Balance (column 5) minus the Next Ten Years Landfill Capacity Requirement (column 6).

FIGURE 1: TEN YEARS OF PERMITTED LANDFILL CAPACITY
 Level of Service Standard = Ten Years of Permitted Landfill Capacity at Projected Tons Per Capita Disposal Rate

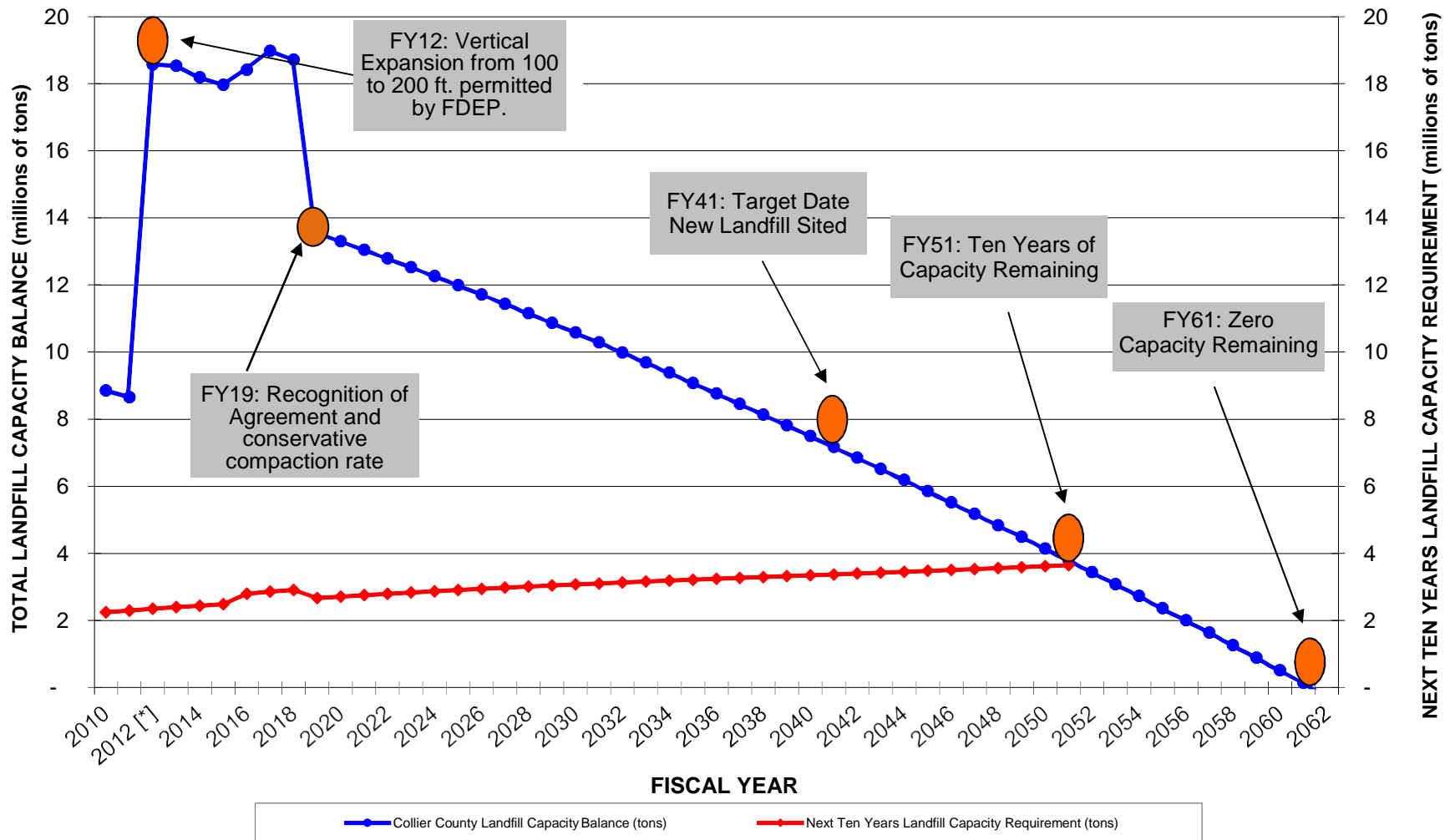




FIGURE 2

CCLF 100 FOOT FILL EXHIBIT FOR 2019 AUIR

2019

Solid Waste Disposal Facilities

APPENDIX C

2 YEAR LINE CAPACITY

Table 2: 2 Year Lined Capacity

Fiscal Year	New Capacity (tons)	Description	Source of Information
2002	930,000	Contracted disposal capacity at the Okeechobee Landfill.	June 12, 2001 Disposal Capacity Agreement, as amended
2002	1,173,575	Lined Cell Expansion	Complete
2006	911,250	Lined Cell Expansion	Complete
2009	845,250	Lined Cell Expansion	Complete
2016	840,000	Lined Cell Expansion	WMIF Cell Development Start Cell A6
2017	1,000,000	Lined Cell Expansion	Complete Cell A6
2019	0 ^[1]	Lined Cell Expansion	Start Cell A5.
2020	1,335,000	Lined Cell Expansion	Complete Cell A5
2024	2,594,000 ^[2]	Lined Cell Expansion	Cell A4 Development
2030	13,366,300 ^[2]	Lined Cell Expansion	Cell A9 Development

^[1] Cell Construction scheduled to begin in October 2019.

^[2] Amounts shown were estimated based on the reported capacities by cell expansion as noted in the most recent landfill permit. As Cell A9 is being filled, the remainder of the landfill cells (reached 100' capacity level) will begin to implement landfilling activities from 100' to 200'. Cell A9 capacity includes this vertical expansion.

RECOMMENDATED ACTION:

- Survey capacity each year.
- Maintain updated Integrated Solid Waste Strategy Plan to include diversion and encourage the EPA hierarchy of disposal to prolong landfill life.

COLLIER COUNTY SCHOOL CAPITAL IMPROVEMENT PLAN

CONTENTS

- **SUMMARY OF DISTRICT SCHOOL BOARD OF COLLIER COUNTY CAPITAL IMPROVEMENT PLAN (CIP) FOR NEXT FIVE YEARS**
- **COUNTYWIDE SCHOOLS INVENTORY – MAP**

Chapter 1

Summary of 5 Year Capital Budget

5 Year Capital Budget Summary

Project	FY 2019 2020	FY 2020 2021	FY 2021 2022	FY 2022 2023	FY 2023 2024	Five Year Total
Capital Construction Program						
New Schools/Additions						
High School GGG	600,000	250,000	90,000,000			90,850,000
Immokalee High School Addition/Renovations	2,000,000	16,500,000				18,500,000
Subtotal New Schools/Additions	2,600,000	16,750,000	90,000,000			109,350,000
Capital Maintenance/Renovations (see Chapter 6)						
Electrical	1,968,000	2,691,000	1,978,000	5,518,000	6,888,000	19,043,000
Emergency Maintenance Projects	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Facilities Renovation Other	10,000	41,000	33,000	3,250,000	1,049,000	4,383,000
Facility Modifications/Special Needs	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	17,500,000
HVAC	13,990,000	16,610,000	40,243,000	35,640,000	28,120,000	134,603,000
Maintenance	2,418,000	2,418,000	2,418,000	2,418,000	2,418,000	12,090,000
Roads and Bridge	10,000	36,000	45,000	34,000	17,000	142,000
Roofing	10,145,000	12,790,000	13,475,000	12,800,000	21,500,000	70,710,000
School Maintenance and Renovations	9,451,000	1,538,000	1,307,000	4,127,000	3,110,000	19,533,000
Site Development	60,000	60,000	300,000			420,000
Stage Curtain Replacements	415,000	115,000	120,000			650,000
Storm Mitigation and Security Improvements	3,375,000	300,000				3,675,000
Subtotal Capital Maintenance/Renovations (see Chapter 6)	48,342,000	43,099,000	66,419,000	70,287,000	69,602,000	297,749,000
Subtotal Capital Construction Program	50,942,000	59,849,000	156,419,000	70,287,000	69,602,000	407,099,000
Other Items						
Site Acquisition/Asset Management						
Property Management	115,000	90,000	40,000	40,000	40,000	325,000
Site Acquisition	175,000					175,000

Project	FY 2019 2020	FY 2020 2021	FY 2021 2022	FY 2022 2023	FY 2023 2024	Five Year Total
Transportation Facilities		10,000,000				10,000,000
Subtotal Site Acquisition/Asset Management	290,000	10,090,000	40,000	40,000	40,000	10,500,000
Health and Safety						
Access Control Enhancements	1,250,000	1,100,000	1,122,000	1,144,440	1,167,329	5,783,769
Fire Safety	498,000	507,960	518,119	528,481	539,051	2,591,611
Radio System Upgrades	1,000,000	1,020,000	1,040,400	1,061,208	1,082,432	5,204,040
Security Camera Installation/Repair	182,451	186,100	189,822	193,619	197,491	949,483
Security Camera Replacements/Additions	310,146	316,349	322,676	329,130	335,713	1,614,014
Subtotal Health and Safety	3,240,597	3,130,409	3,193,017	3,256,878	3,322,016	16,142,917
Portables						
Portable Leasing	475,000	475,000	358,000	250,000	250,000	1,808,000
Portable Renovation	70,000	70,000	70,000	70,000	70,000	350,000
Portable Setup	482,000	120,000	320,000	320,000	120,000	1,362,000
Subtotal Portables	1,027,000	665,000	748,000	640,000	440,000	3,520,000
Technology (*Transfer to General)						
Classroom Technology Equipment *	8,602,000	8,592,000	9,610,000	8,255,000	8,280,000	43,339,000
Enterprise Software/Current Year	100,000	10,000	10,000	10,000	10,000	140,000
Enterprise Software/Prior Year	13,100,000					13,100,000
Technology Cabling	2,400,000	1,675,000	1,700,000	1,525,000	1,550,000	8,850,000
Technology Infrastructure *	7,586,000	3,920,000	4,070,000	4,050,000	4,765,000	24,391,000
Technology Retrofit *	2,150,348	1,759,000	2,218,000	1,418,000	1,604,000	9,149,348
Subtotal Technology (*Transfer to General)	33,938,348	15,956,000	17,608,000	15,258,000	16,209,000	98,969,348
Equipment and Vehicles (*Transfer to General)						
District Capital Equipment	662,460	166,200	189,300	201,750	267,700	1,487,410
Districtwide Equipment Transfer*	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	6,000,000
Equipment/Portables *	225,000	25,000	25,000	25,000	25,000	325,000
School Buses	4,463,000	4,483,590	4,622,358	4,688,622	5,021,317	23,278,887
Vehicles other than Buses	495,000	626,005	579,089	853,487	715,831	3,269,412

Project	FY 2019 2020	FY 2020 2021	FY 2021 2022	FY 2022 2023	FY 2023 2024	Five Year Total
Subtotal Equipment and Vehicles (*Transfer to General)	7,045,460	6,500,795	6,615,747	6,968,859	7,229,848	34,360,709
Planning and Staff Support						
Building & Equipment Maintenance Staff	11,830,672	12,131,975	12,442,317	12,761,967	13,091,394	62,258,325
Facilities Staff	1,684,217	1,730,108	1,777,380	1,826,065	1,876,214	8,893,984
Other Capital Staff	635,461	652,758	670,571	1,481,172	795,951	4,235,913
Permitting Services	160,000	375,000	275,000	275,000	175,000	1,260,000
Printing Services	18,000	50,000	50,000	50,000	25,000	193,000
Professional Services Retainer-Engineer/Architect/Other	90,000	150,000	150,000	150,000	150,000	690,000
Site/Facility Testing	100,000	200,000	200,000	300,000	100,000	900,000
Subtotal Planning and Staff Support	14,518,350	15,289,841	15,565,268	16,844,204	16,213,559	78,431,222
Carry Forward/Debt Service/Insurance/Transfer/Contingency						
Carry Forward for Subsequent Years	481,331	671,637	426,621	280,708	64,416	1,924,713
Charter School Capital Flow Thru	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000	7,000,000
Debt Service	33,700,000	35,000,000	36,200,000	36,500,000	36,500,000	177,900,000
Property Insurance	5,200,000	5,700,000	6,200,000	6,600,000	7,000,000	30,700,000
Reserve for Future Schools/Current Year	14,100,000	14,000,000	14,000,000	14,000,000	14,000,000	70,100,000
Reserve for Future Schools/Prior Years	71,780,000					71,780,000
Reserve for Future Vehicles	1,953,203					1,953,203
Self-Insured Retention/Current Year	6,000,000	6,000,000	6,000,000	9,000,000	16,000,000	43,000,000
Self-Insured Retention/Prior Year	33,000,000					33,000,000
Transfer to General Maintenance	4,395,000	4,495,000	4,595,000	4,695,000	4,795,000	22,975,000
Transfer to Health and Safety Maintenance	622,908	622,928	659,427	659,693	682,934	3,247,890
Subtotal Carry Forward/Debt Service/Insurance/Transfer/Contingency	172,632,442	67,889,565	69,481,048	73,135,401	80,442,350	463,580,806
Subtotal Other Items	232,692,197	119,521,610	113,251,080	116,143,342	123,896,773	705,505,002
Total Projects	283,634,197	179,370,610	269,670,080	186,430,342	193,498,773	1,112,604,002

Summary of Estimated Revenue

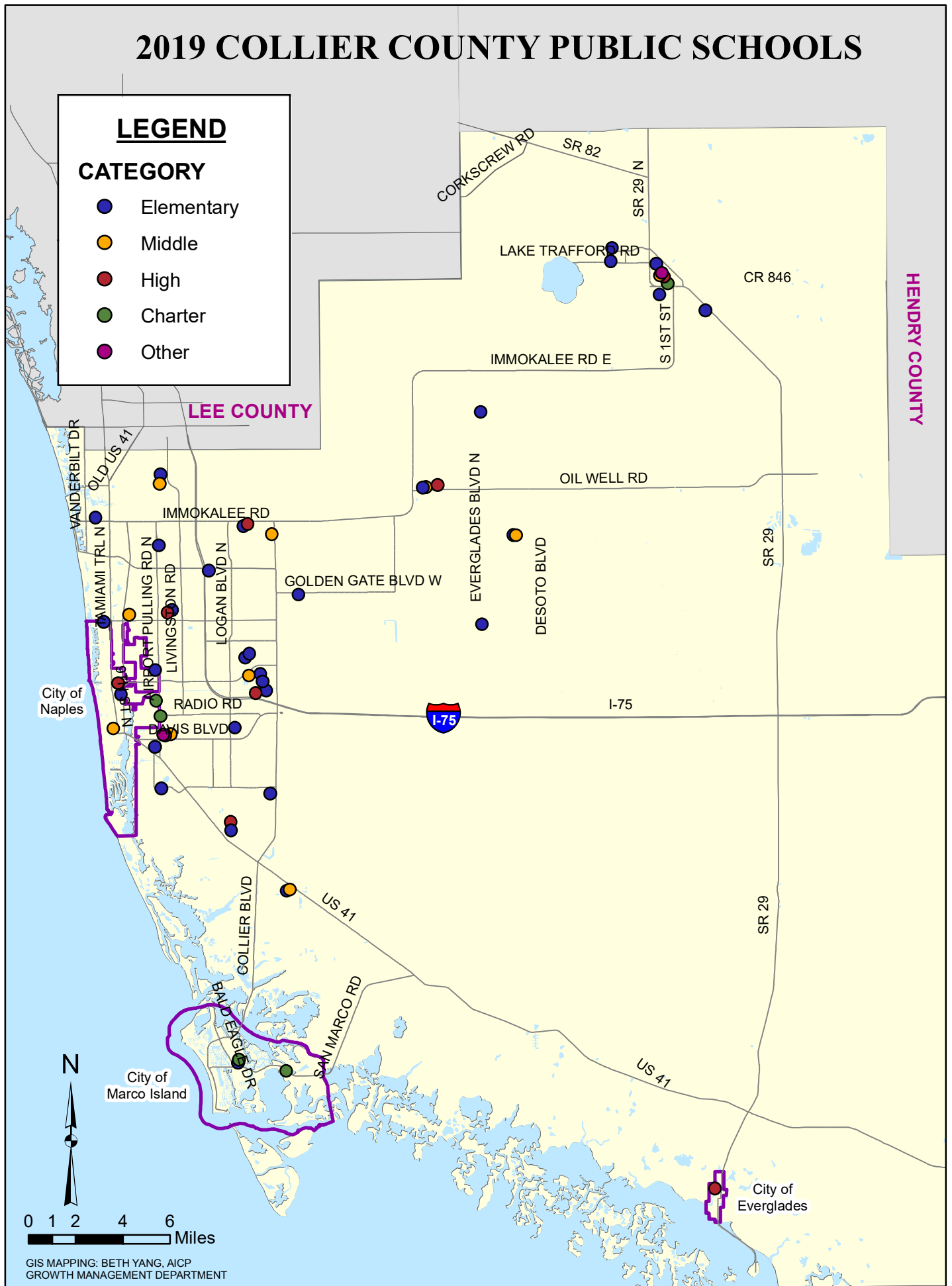
Estimated Revenue	FY 2019 2020	FY 2020 2021	FY 2021 2022	FY 2022 2023	FY 2023 2024	Five Year Total
Local Sources						
Impact Fees	14,000,000	14,000,000	14,000,000	14,000,000	14,000,000	70,000,000
Interest Income	2,200,000	2,200,000	2,200,000	2,100,000	1,800,000	10,500,000
Capital Improvement Tax	141,291,360	149,768,640	158,454,720	165,585,600	173,037,600	788,137,920
Beginning Balance	650,000	481,331	671,637	426,621	280,708	2,510,297
Other	12,000	12,000	12,000	12,000	12,000	60,000
School Reserve Use Impact Fee	600,000	250,000	90,000,000			90,850,000
School Reserve Use Capital	1,100,000	8,680,000				9,780,000
Future Vehicle Reserve Usage	95,000	126,005	479,089	453,487	515,831	1,669,412
CFWD of Designated Reserves	119,833,203					119,833,203
Subtotal Local Sources	279,781,563	175,517,976	265,817,446	182,577,708	189,646,139	1,093,340,832
State						
CO & DS	1,628,958	1,628,958	1,628,958	1,628,958	1,628,958	8,144,790
PECO Maint.	823,676	823,676	823,676	823,676	823,676	4,118,380
Charter Capital Flow Thru	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000	7,000,000
Subtotal State	3,852,634	3,852,634	3,852,634	3,852,634	3,852,634	19,263,170
Total	283,634,197	179,370,610	269,670,080	186,430,342	193,498,773	1,112,604,002

2019 COLLIER COUNTY PUBLIC SCHOOLS

LEGEND

CATEGORY

- Elementary
- Middle
- High
- Charter
- Other



GIS MAPPING: BETH YANG, AICP
GROWTH MANAGEMENT DEPARTMENT

COUNTY PARKS AND RECREATION FACILITIES

CONTENTS

- **COUNTY COMMUNITY AND REGIONAL PARK LANDS – SUMMARY**
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2019 AUIR SUMMARY
COMMUNITY AND REGIONAL PARK LANDS

Facility Type: Community and Regional Park Land (Category A)

Level of Service Standards (LOSS): 1.2 acres per 1,000/population (Community)
 2.7 acres per 1,000/population (Regional)

Unit Costs: \$119,947 per acre* (Community)
 \$504,450 per acre* (Regional)

Community Parks: Using the Peak Season population for unincorporated area of the County, the following is set forth:

	<u>Acres</u>	<u>Value</u>
Available Inventory as of 9/30/2019	594.74	\$71,337,279
Required Inventory as of 9/30/2024	538.73 **	\$64,619,047
Proposed AUIR FY 2019/20-2023/24	<u>0.00</u>	<u>\$0</u>
5-year Surplus or (Deficit)	56.01	\$6,718,231

Regional Parks: Using the Countywide Peak Season population, the following is set forth:

Available Inventory as of 9/30/2019	1,559.61	\$786,745,265
Required Inventory as of 9/30/2024	1,343.67 ***	\$677,814,332
Proposed AUIR FY 2019/20-2023/24	<u>0.35</u> ****	<u>\$174,035</u>
5-year Surplus or (Deficit)	216.29	\$109,104,968

Expenditures

Proposed AUIR FY 19/20-23/24 (value of) Acquisitions	\$0
Debt Service Payments for 2011/2013 Bonds	\$17,644,900
Debt Service Payments for 2019 Loan****	<u>\$7,930,500</u>
Total Expenditures	\$25,575,400

Revenues

Impact Fees anticipated	\$45,625,500
Interest/Misc	\$500,000
Grant/Reimbursement	\$0
Available Cash for Future Projects/Payment of Debt Service	\$5,685,700
Proposed added value through commitments, leases and governmental transfers	<u>\$0</u>
Total Revenues	\$51,811,200

Surplus or (Deficit) Revenues***** \$26,235,800

Revenues needed to maintain existing LOSS none

Recommendation:

That the BCC approve the proposed Community and Regional Park Lands AUIR and adopt the CIE Update for FY 2019/20- FY 2023/24.

Notes:

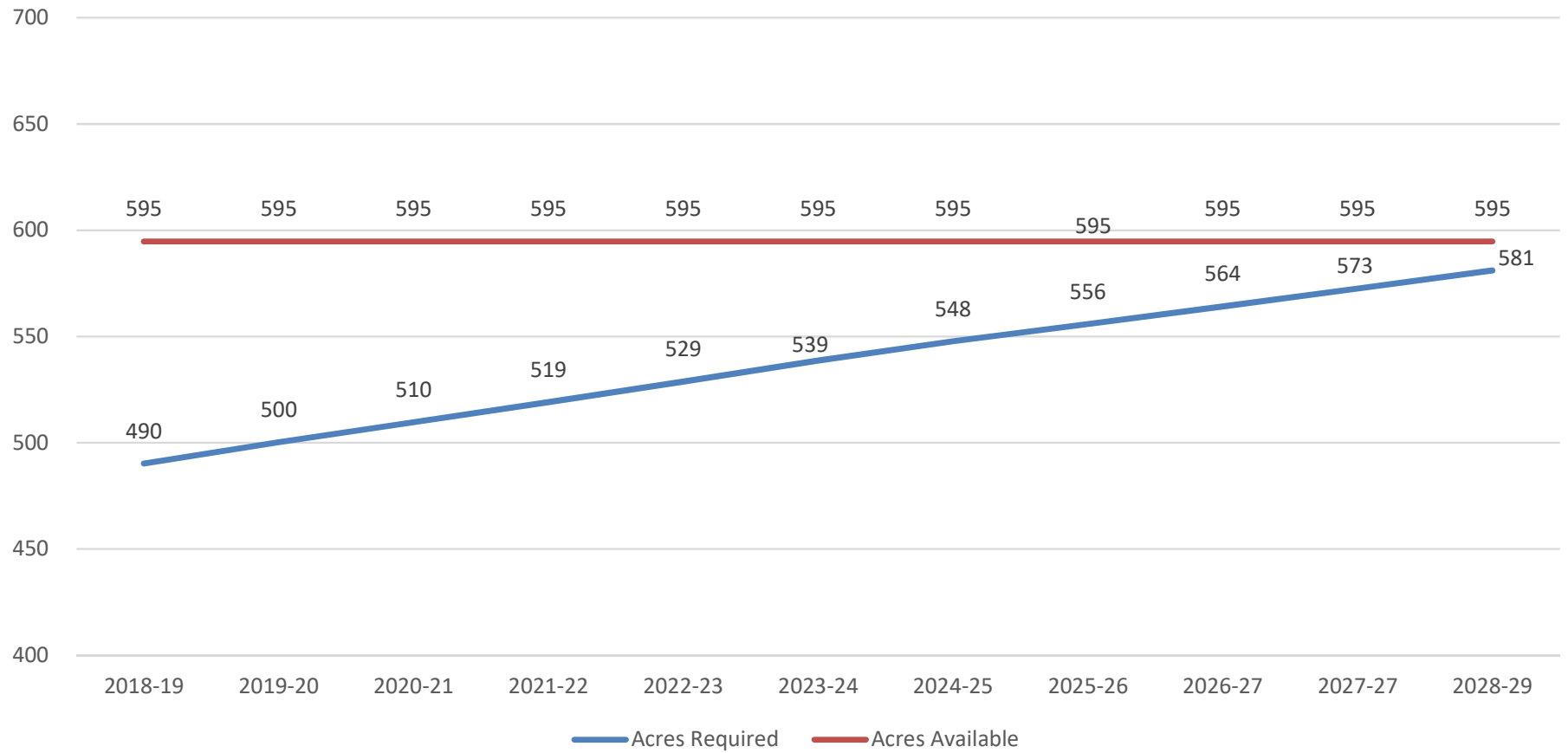
- * Community Park Land and Regional Park Land Unit Cost values are based on the 2017 Impact Fee Study Update
- ** Peak Season population for the unincorporated area of the County of 448,943 x 0.0012 LOSS
= 538.73 acres
- *** Countywide Peak Season population of 497,655x 0.0027 LOSS = 1,343.67 acres
- **** 2019 Loan for GG Golf Course. The loan amount is the full annual debt service amount. The debt will be allocated once all or a portion of the property is re-purposed.
- ***** Reserved for future growth.

2019 AUIR
Community Park Acres
LOSS: 1.2 Acres/1000 Population

FISCAL YEAR	POPULATION UNINCORPORATED	PARK ACRES REQUIRED 0.0012000	PARK ACRES PLANNED IN AUIR	PARK ACRES AVAILABLE *	SURPLUS/ (DEFICIENCY)	REQUIRED COST AT \$119,947	TOTAL/VALUE AVAILABLE \$119,947
2018-19	408,563	490.28	0.00	594.74	104.46	\$58,807,615	\$71,337,279
2019-20	416,873	500.25	0.00	594.74	94.49	\$60,003,487	\$71,337,279
2020-21	424,664	509.60	0.00	594.74	85.14	\$61,124,991	\$71,337,279
2021-22	432,604	519.12	0.00	594.74	75.62	\$62,266,887	\$71,337,279
2022-23	440,696	528.84	0.00	594.74	65.90	\$63,432,771	\$71,337,279
2023-24	448,943	538.73	0.00	594.74	56.01	\$64,619,047	\$71,337,279
1st 5-Year Growth (2020-2024)	40,380	48.46	0.00				
2024-25	456,472	547.77	0.00	594.74	46.97	\$65,703,368	\$71,337,279
2025-26	463,259	555.91	0.00	594.74	38.83	\$66,679,737	\$71,337,279
2026-27	470,151	564.18	0.00	594.74	30.56	\$67,671,698	\$71,337,279
2027-27	477,150	572.58	0.00	594.74	22.16	\$68,679,253	\$71,337,279
2028-29	484,258	581.11	0.00	594.74	13.63	\$69,702,401	\$71,337,279
2nd 5-Year Growth (2025-2029)	35,315	42.38	0.00				
Total 10-Year Growth (2020-2029)	75,695	90.83	0.00				

Note:

Community Park Acreage



Anticipated Changes in Community Park Land Inventory FY 19/20 to FY 28/29

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$119,947	
2019/20					\$0	
FY 19/20 TOTAL				0	\$0	\$0
2020/21					\$0	
FY 20/21 TOTAL				0	\$0	\$0
2021/22					\$0	\$0
FY 21/22 TOTAL				0	\$0	\$0
2022/23					\$0	
FY 22/23 TOTAL				0	\$0	\$0
2023/24					\$0	
FY 23/24 TOTAL				0	\$0	\$0
FY 19/20 TO FY 23/24 FIVE-YEAR SUBTOTAL				0	\$0	\$0
2024/25					\$0	
FY 24/25 TOTAL				0	\$0	\$0
2025/26					\$0	
FY 25/26 TOTAL				0	\$0	\$0
2026/27					\$0	
FY 26/27 TOTAL				0	\$0	\$0
2027/28					\$0	
FY 27/28 TOTAL				0	\$0	\$0
2028/29					\$0	
FY 28/29 TOTAL				0	\$0	\$0
FY 24/25 TO FY 28/28 FIVE-YEAR SUBTOTAL				0	\$0	\$0
FY 19/20 TO FY 28/29 TEN-YEAR TOTAL				0	\$0	\$0

2019 AUIR

Regional Park Land Acres

LOSS: 2.7 Acres / 1000 Population

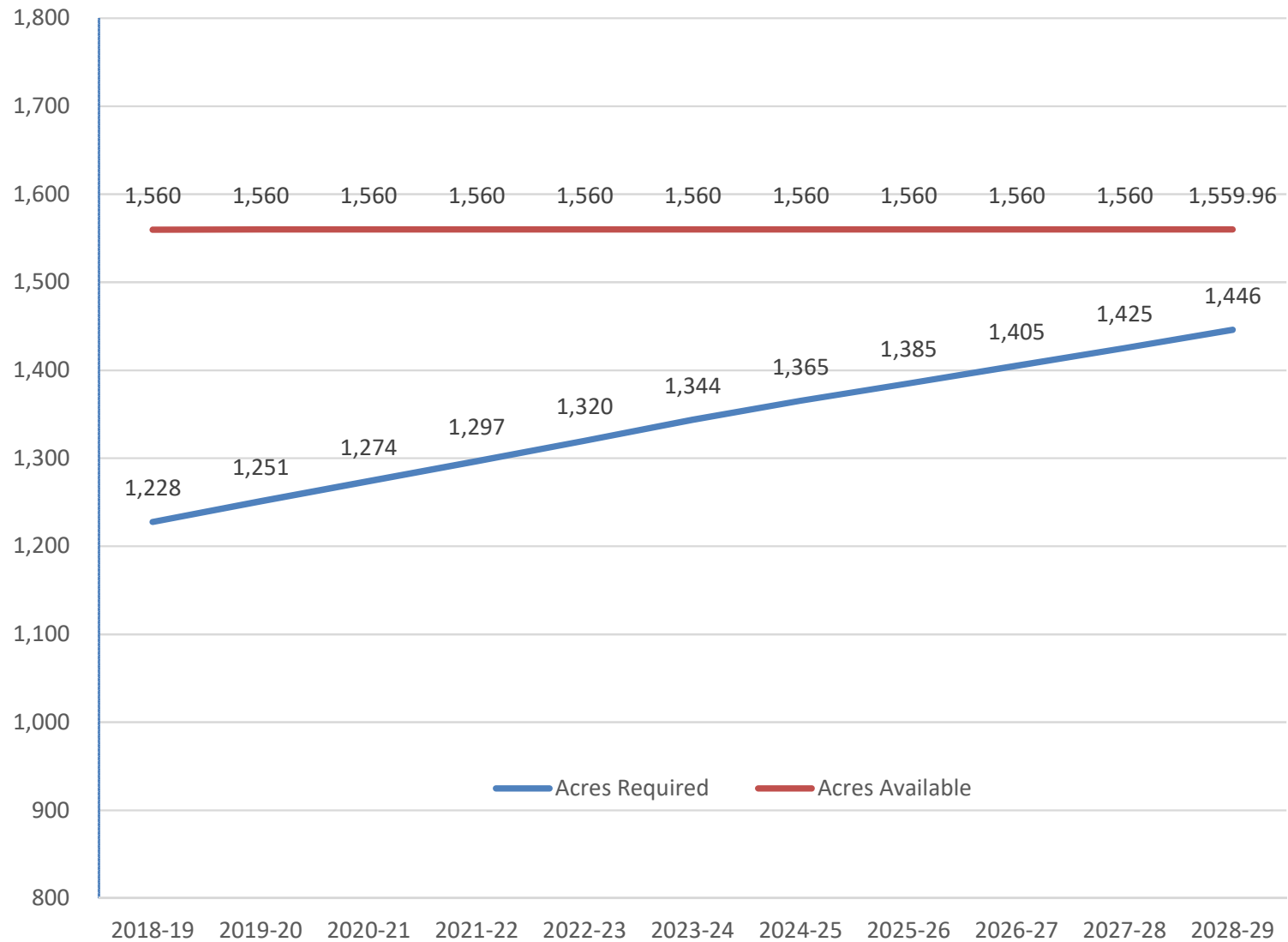
FISCAL YEAR	POPULATION CO-WIDE	FACILITIES REQUIRED 0.0027000	FACILITIES PLANNED IN AUIR	PARK ACRES AVAILABLE*	PARK ACRES SURPLUS/ (DEFICIENCY)	REQUIRED COST AT \$504,450	TOTAL/VALUE AVAILABLE \$504,450
2018-19	454,676	1,227.63	0.00	1,559.61	331.98	\$619,277,954	\$786,745,265
2019-20	463,481	1,251.40	0.35	1,559.96	308.56	\$631,268,730	\$786,919,300
2020-21	471,798	1,273.85	0.00	1,559.96	286.11	\$642,593,633	\$786,919,300
2021-22	480,264	1,296.71	0.00	1,559.96	263.25	\$654,125,360	\$786,919,300
2022-23	488,882	1,319.98	0.00	1,559.96	239.98	\$665,863,911	\$786,919,300
2023-24	497,655	1,343.67	0.00	1,559.96	216.29	\$677,814,332	\$786,919,300
1st 5-Year Growth (2020-2024)	42,979	116.04	0.35				
2024-25	505,706	1,365.41	0.00	1,559.96	194.55	\$688,781,075	\$786,919,300
2025-26	513,010	1,385.13	0.00	1,559.96	174.83	\$698,728,829	\$786,919,300
2026-27	520,419	1,405.13	0.00	1,559.96	154.83	\$708,817,829	\$786,919,300
2027-28	527,935	1,425.42	0.00	1,559.96	134.54	\$719,053,119	\$786,919,300
2028-29	535,560	1,446.01	0.00	1,559.96	113.95	\$729,439,745	\$786,919,300
2nd 5-Year Growth (2025-2029)	37,905	102.34	0.00				
Total 10-Year Growth (2020-2029)	80,884	218.39	0.35				

Note:

CC Sports Complex and Event Center - 0.345 acres

Regional Park Acreage

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Anticipated Changes in Regional Park Land Inventory FY 19/20 to FY 28/29

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$504,450	
2019/20		Land purchase	CC Sports Complex and Event Center	0.35	\$174,035	
				0.35	\$174,035	\$0
2020/21					\$0	
FY 20/21 TOTAL				0.00	\$0	\$0
2021/22					\$0	
FY 21/22 TOTAL				0.00	\$0	\$0
2022/23					\$0	
FY 22/23 TOTAL				0.00	\$0	\$0
2023/24					\$0	
FY 23/24 TOTAL				0.00	\$0	\$0
FY 19/20 TO FY 23/24 FIVE-YEAR SUBTOTAL				0.35	\$174,035	\$0
2024/25				0.00	\$0	
FY 24/25 TOTAL				0.00	\$0	\$0
2025/26				0.00	\$0	
FY 25/26 TOTAL				0.00	\$0	\$0
2026/27				0.00	\$0	
FY 26/27 TOTAL				0.00	\$0	\$0
2027/28				0.00		
FY 27/28 TOTAL				0.00	\$0	\$0
2028/29				0.00		
FY 28/29 TOTAL				0.00	\$0	\$0
FY 24/25 TO FY 28/28 FIVE-YEAR SUBTOTAL				0.00	\$0	\$0
FY 19/20 TO FY 28/29 TEN-YEAR TOTAL				0.35	\$174,035	\$0

2019 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Conservation Preserve Acres
1	Marco	951 Boat Ramp	Regional	0.50			0.50		
1	Marco	Caxambas Park	Regional	4.20			4.20		
1	East Naples	Cindy Mysels CP	Community	5.00	5.00				
1	South Naples	Eagle Lakes CP	Community	32.00	32.00				
1	Marco	Goodland Boating Park	Regional	5.00			5.00		
1	Marco	Isle of Capri Land Parcel	Neighborhood	0.11		0.11			
1	Marco	Isles of Capri NP	Neighborhood	0.35		0.35			
1	Marco	Isles of Capri Paddlecraft Park	Regional	9.00			9.00		
1	South Naples	Manatee CP	Community	60.00	60.00				
1	Marco	Mar Good Harbor Park	Regional	2.50			2.50		
1	East Naples	Naples Manor NP	Neighborhood	0.30		0.30			
1	South Naples	Panther NP	Neighborhood	0.50		0.50			
1	South Naples	Port of The Islands	Regional	5.55			5.55		
1	Urban Estates	Rich King Greenway - (FPL)	Regional	37.50				37.50	
1	Central Naples	Rock Harbor Parcels	Neighborhood	0.10		0.10			
1	Marco	South Marco Beach Access	Regional	5.00			5.00		
1	Marco	Tigertail Beach Park	Regional	31.60			31.60		
2	North Naples	Barefoot Beach Access	Regional	5.00			5.00		
2	North Naples	Barefoot Beach Preserve	Regional	159.60			159.60		
2	North Naples	Barefoot Beach State Land	Regional	186.00			186.00		
2	North Naples	Clam Pass Park	Regional	35.00			35.00		
2	North Naples	Cocohatchee River Park	Regional	7.56			7.56		
2	North Naples	Conner Park	Regional	5.00			5.00		
2	North Naples	Naples Park Elementary	Community	5.00	5.00				
2	North Naples	North Collier RP	Regional	207.70			207.70		
2	North Naples	North Naples NP (Best Friends--surplus)	Neighborhood	0.36		0.36			
2	North Naples	Osceola Elementary	Community	3.20	3.20				
2	North Naples	Palm River NP	Neighborhood	3.00		3.00			
2	North Naples	Pelican Bay CP	Community	15.00	15.00				
2	North Naples	Vanderbilt Beach	Regional	5.00			5.00		
2	North Naples	Vanderbilt Beach Access	Regional	0.45			0.45		
2	North Naples	Veterans CP	Community	43.64	43.64				
2	North Naples	Veterans Memorial Elementary	Community	4.00	4.00				
2	North Naples	Willoughby Park	Neighborhood	1.20		0.59			
3	Golden Gate	Aaron Lutz NP	Neighborhood	3.20		3.20			
3	Golden Gate	CC Sports Complex and Event Center	Regional	193.88			193.88		
3	Golden Gate	Golden Gate Community Center	Community	21.00	21.00				
3	Golden Gate	Golden Gate CP	Community	35.00	35.00				
3	Golden Gate	Golden Gate Golf Course	Regional	167.00			167.00		
3	Golden Gate	Golden Gate Greenway / Pathway	Community	3.00	3.00				
3	North Naples	Oakes NP	Neighborhood	2.00		2.00			
3	Golden Gate	Palm Springs NP	Neighborhood	6.70		6.70			
3	Golden Gate	Rita Eaton NP	Neighborhood	4.80		4.80			
3	North Naples	Vineyards CP	Community	35.50	35.50				
4	East Naples	Bay Street Land Parcels	Regional	1.34			1.34		
4	East Naples	Bayview Park	Regional	6.27			6.27		
4	Golden Gate	Coconut Circle NP	Neighborhood	1.20		1.20			
4	East Naples	East Naples CP	Community	47.00	47.00				
4	Central Naples	Fred W. Coyle Freedom Park	Regional	25.16			25.16		
4	Central Naples	Gordon River Greenway Park	Regional	79.00			79.00		
4	Central Naples	Naples Zoo	Regional	50.00			50.00		
4	North Naples	North Gulfshore Beach Access	Regional	0.50			0.50		
4	North Naples	Poinciana NP	Neighborhood	0.30		0.30			
4	East Naples	Sugden RP	Regional	120.00			120.00		
5	Immokalee	Airport Park	Community	19.00	19.00				
5	Immokalee	Ann Oleski Park	Regional	2.30			2.30		
5	Urban Estates	Big Corkscrew Island RP	Regional	62.00			62.00		
5	Urban Estates	Big Corkscrew Island RP - Lake	Regional	90.00			90.00		
5	Urban Estates	Corkscrew Elementary/Middle	Community	16.90	16.90				
5	Immokalee	Dreamland NP - *School fenced in area	Neighborhood	0.50		0.50			
5	Immokalee	Eden Park Elementary	Community	2.80	2.80				
5	Immokalee	Immokalee CP	Community	23.00	23.00				
5	Immokalee	Immokalee High School	Community	1.00	1.00				
5	Immokalee	Immokalee South Park	Community	3.20	3.20				
5	Immokalee	Immokalee Sports Complex	Community	14.00	14.00				
5	Urban Estates	Livingston Woods NP (surplus)	Neighborhood	2.73		2.73			
5	Urban Estates	Max A Hasse CP	Community	20.00	20.00				
5	Immokalee	Oil Well Park	Neighborhood	5.50		5.50			
5	Urban Estates	Palmetto Elementary	Community	2.00	2.00				
5	Immokalee	Pepper Ranch	Regional	50.00			50.00		
5	Urban Estates	Randall Curve	Community	47.00	47.00				
5	Urban Estates	Sabal Palm Elementary	Community	9.50	9.50				

2019 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Conservation Preserve Acres
5	Immokalee	Tony Rosbough CP	Community	7.00	7.00				
5	Urban Estates	Vanderbilt Extension CP	Community	120.00	120.00				
1	Marco	McIlvane Marsh	Preserve	380.89					380.89
1	Marco	Otter Mound Preserve	Preserve	2.45					2.45
1	East Naples	Shell Island Preserve	Preserve	83.18					83.18
2	North Naples	Cochatchee Creek Preserve	Preserve	3.64					3.64
2	North Naples	Railhead Scrub Preserve	Preserve	135.36					135.36
2	North Naples	Wet Woods Preserve	Preserve	26.77					26.77
3	North Naples	Alligator Flag Preserve	Preserve	18.46					18.46
3	North Naples	Logan Woods Preserve	Preserve	6.78					6.78
4	Central Naples	Fred W. Coyle Freedom Park	Preserve	12.50					12.50
4	Central Naples	Gordon River Greenway	Preserve	50.51					50.51
5	Urban Estates	Camp Keais Strand	Preserve	32.50					32.50
5	Immokalee	Caracara Prairie Preserve	Preserve	367.70					367.70
5	Urban Estates	Dr Robert H. Gore III	Preserve	171.21					171.21
5	Urban Estates	Nancy Payton Preserve	Preserve	71.00					71.00
5	Immokalee	Panther Walk Preserve	Preserve	10.69					10.69
5	Immokalee	Pepper Ranch Preserve	Preserve	2,511.90					2,511.90
5	Urban Estates	Red Maple Swamp Preserve	Preserve	213.88					213.88
5	Urban Estates	Redroot Preserve	Preserve	9.26					9.26
5	Urban Estates	Rivers Road Preserve	Preserve	76.74					76.74
5	Urban Estates	Winchester Head Preserve	Preserve	87.41					87.41
		Total Collier Units		6,460.03	594.74	32.24	1,522.11	37.50	4,272.83
		Regional Parks and Pathways					1,559.61		

Totals	Community Park Acres	Neighborhood Park Acres	Regional Park Acres
Value per Unit	\$119,947		\$504,450
Total Value	\$71,337,279		\$786,745,265

Conservation Preserve Acres

Municipalities Acreage

District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres
City of Naples	Beach Accesses	Regional	0.50			0.50	
City of Naples	Naples Landings	Regional	3.81			3.81	
City of Naples	Fleischmann Park	Community	25.26	25.26			
City of Naples	Cambier Park	Community	12.84	12.84			
City of Naples	Baker Park	Regional	15.20			15.20	
City of Naples	Lowdermilk Park	Regional	10.30			10.30	
City of Naples	River Park CC	Community	1.61	1.61			
City of Naples	Naples Preserve	Regional	9.78			9.78	
City of Naples	Anthony Park	Neighborhood	7.00		7.00		
	Total Naples Units		86.30	39.71	7.00	39.59	0.00
City of Marco Island	Jane Hittler	Neighborhood	0.25		0.25		
City of Marco Island	Veterans' Memorial	Neighborhood	0.25		0.25		
City of Marco Island	Leigh Plummer	Neighborhood	3.50		3.50		
City of Marco Island	Racquet Center	Community	2.97	2.97			
City of Marco Island	Frank Mackle	Community	30.00	30.00			
City of Marco Island	Winterberry	Neighborhood	5.00		5.00		
	Total Marco Units		41.97	32.97	9.00	0.00	0.00
Everglades City	Community Park	Community	0.86	0.86			
Everglades City	McLeod Park	Community	1.04	1.04			
	Total Everglades Units		1.90	1.90	0.00	0.00	0.00
	Total Municipality Units	17	130.17	74.58	16.00	39.59	0.00

Notes:

*Not included in the inventory are those community and regional parks associated with the City of Naples and City of Marco Island. Within the City of Marco Island, the County operates three regional parks, which are included within the Counties regional park acreage inventory.

*Park land and amenities located in Private communities are taken into consideration when planning new parks and facilities but cannot be counted as inventory due to lack of public access

Summary of Changes in Parks and Recreation Inventory FY 18 to FY 19

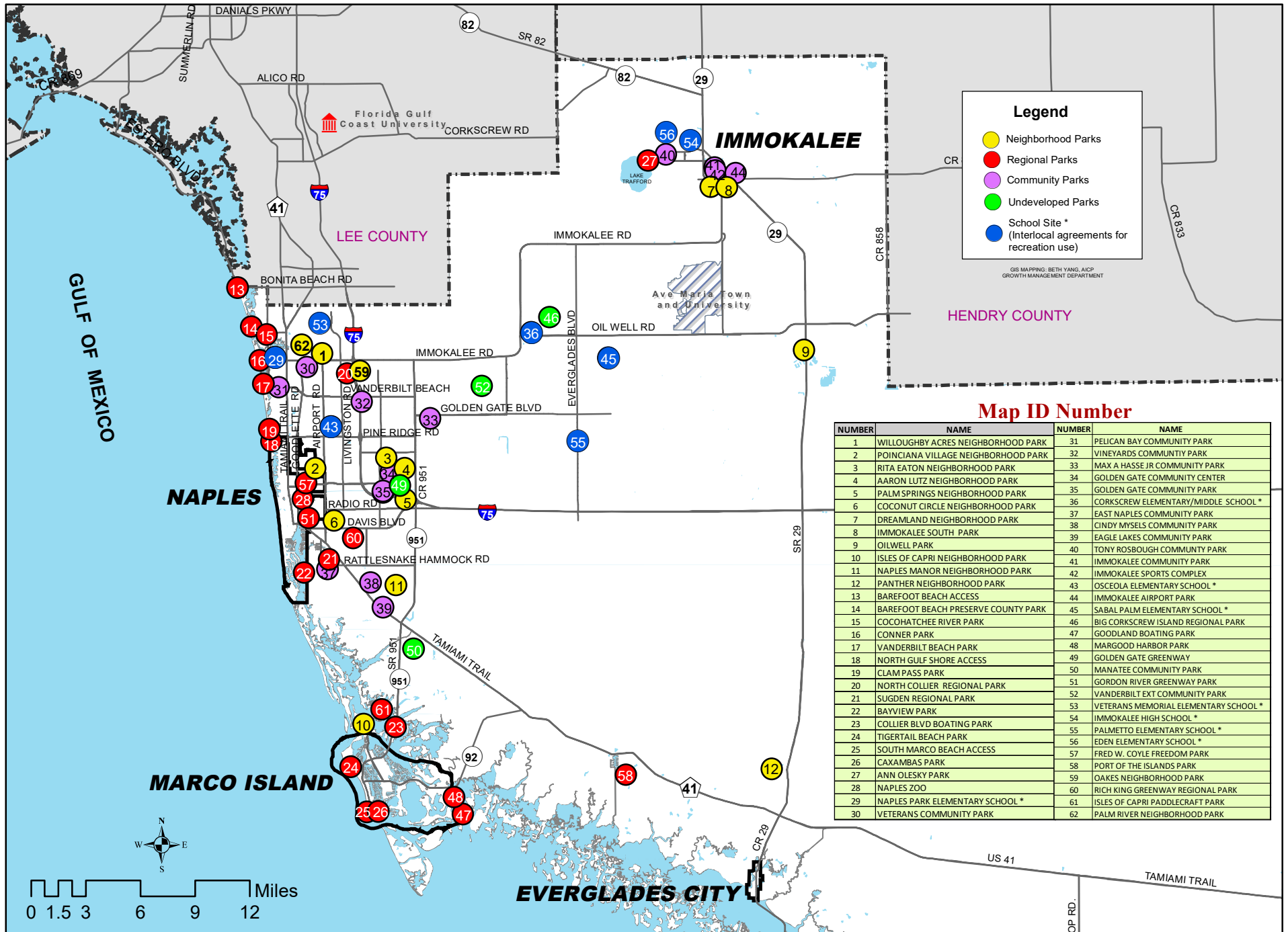
Community Park Land Changes

Action	Location	Acres	Explanation
NET CHANGE TO COMMUNITY PARK ACREAGE		0	

Regional Park Land Changes

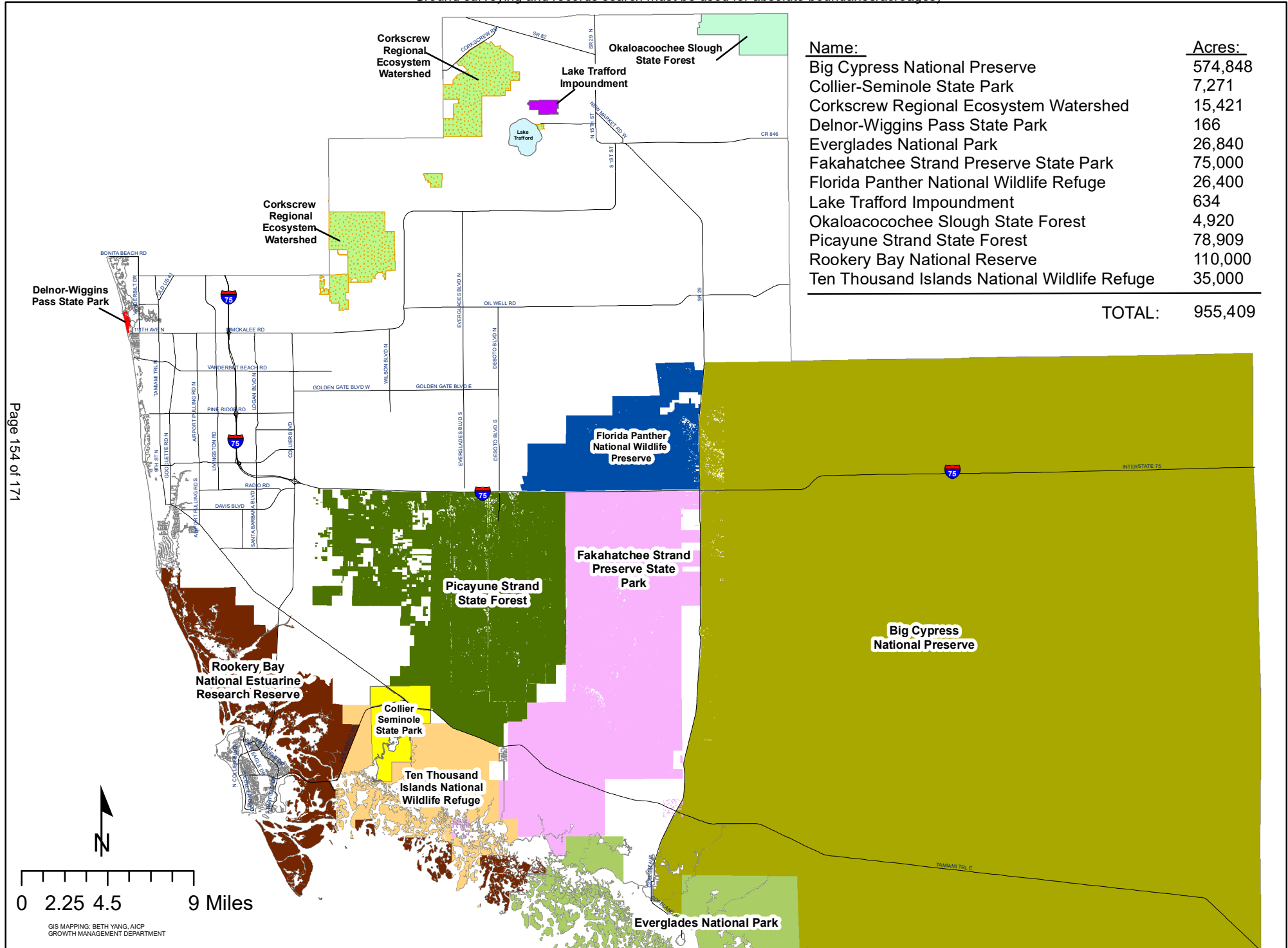
Action	Location	Acres	Explanation
Add	Golden Gate Golf Course	167	Land purchase
Add	CC Sports Complex and Event Center	42.88	Land purchase
Add	Vanderbilt Beach Access	0.45	Land purchase
NET CHANGE TO REGIONAL PARK ACREAGE		210.33	

2019 PARKS INVENTORY



FEDERAL AND STATE OWNED PARK LAND

(Disclaimer: The information provided is to be used for general mapping purposes only.
Ground surveying and records search must be used for absolute boundaries/acreages)



CAPITAL IMPROVEMENT ELEMENT (CIE) AMENDMENT SUBMITTALS FOR CATEGORY “A” FACILITIES

CONTENTS

- **EXHIBIT “A”, SCHEDULE OF CAPITAL IMPROVEMENTS
FOR NEXT 5 FISCAL YEARS**
- **APPENDIX “H”, SCHEDULE OF CAPITAL
IMPROVEMENTS FOR FUTURE FISCAL YEARS 6 – 10**

Updates and Amendments to the Capital Improvement Element

The Annual Update and Inventory Report includes updates to the Capital Improvement Element of the Growth Management Plan needed to eliminate existing deficiencies, replace obsolete or worn out facilities, and make available adequate facilities for future growth. These updates include the two following tables and two Collier County Public School District planning documents as provided for in Policy 4.2 of the Capital Improvement Element.

What follows as “Exhibit A” is the Schedule of Capital Improvements for the next five year period [Fiscal years 2020 through 2024]. Exhibit A is a component of the Capital Improvement Element and indicates the County’s needs for arterial and collector roads and bridge facilities, parks and recreation facilities, stormwater management system, potable water system, solid waste disposal facilities, and wastewater collection and treatment system improvements – all Category “A” facilities subject to concurrency. Public schools are also Category “A” facilities, and planning for public schools over the next five year period is provided by the financially feasible five-year project programming in the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2019 through 2038* that is incorporated by reference in the Capital Improvement Element. School planning for this period is also provided by the Collier County Public School District *Facilities Work Program*, as incorporated into the Capital Improvement Element as data and analysis.

What follows as “Appendix H” is the Schedule of Capital Improvements for the future five year period [Fiscal years 2025 through 2029]. Appendix H supplements the Capital Improvement Element for long term facilities planning of the same Category “A” facilities. Long term planning for public schools is provided by the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2019 through 2038*.

Each Schedule of Capital Improvements table represents the revenue sources and expenditures for Category “A” public facilities to maintain the levels of service standards established by the Capital Improvement Element. These updated tables, together with updated references to School District documents and their incorporation into the Capital Improvement Element as data and analysis, constitute the amendments to the Capital Improvement Element.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
60144	Oil Well Rd - Everglades Blvd to Oil Well Grade	Advanced Construction	\$608,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,808,000
60168	Vanderbilt Beach Rd - Collier Blvd to 8th St	R/A 20, C 21	\$15,000,000	\$75,000,000	\$0	\$0	\$0	\$90,000,000
60200	Goodland Rd (CR 92A) Improvements	A 20, C 21	\$2,000,000	\$4,100,000	\$0	\$0	\$0	\$6,100,000
60129	Wilson / Benfield Extension - Lord's Way to City Gate N	C 20, R/A 21-24	\$7,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$11,000,000
60215	Triangle Blvd / Price St	R/C 20	\$6,000,000	\$0	\$0	\$0	\$0	\$6,000,000
60190	Airport Rd - Vanderbilt Beach Rd to Immokalee Rd	D/R 20, C 22	\$3,000,000	\$0	\$14,500,000	\$0	\$0	\$17,500,000
60066	11 Bridge Replacements	M 20, C 21	\$1,075,000	\$31,865,000	\$0	\$0	\$0	\$32,940,000
60201	Pine Ridge Rd - Livingston Blvd to I-75	D/C/M 23	\$0	\$0	\$0	\$30,000,000	\$0	\$30,000,000
65061	Ruston Pointe	C 20	\$150,000	\$0	\$0	\$0	\$0	\$150,000
33524	Tiger Grant	see AIUR for details	\$685,000	\$0	\$0	\$0	\$0	\$685,000
70167	Business Center (City Gate)	C 21	\$0	\$8,000,000	\$0	\$0	\$0	\$8,000,000
68057	Collier Blvd (Green to GG Main Canal)	D/A 22, R/A 23, A 24	\$0	\$0	\$3,200,000	\$7,000,000	\$4,900,000	\$15,100,000
60065	Randall Blvd - Immokalee Rd to Oil Well	A 24	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000
60232	Belle Meade	see AIUR for details	\$30,000	\$0	\$0	\$0	\$0	\$30,000
TBD	Goodlette Rd (Vanderbilt Beach Rd to Immokalee Rd)	R/A 22, D/R/M/A 23, A 24	\$0	\$0	\$2,000,000	\$5,500,000	\$6,750,000	\$14,250,000
TBD	Green Blvd (Santa Barbara Blvd to Immokalee Rd)	S 23	\$0	\$0	\$0	\$500,000	\$0	\$500,000
TBD	Vanderbilt Beach Rd - 16th to Everglades Blvd	D/R/M 22, R/A 23, R/A 24	\$0	\$0	\$2,800,000	\$11,250,000	\$5,000,000	\$19,050,000
TBD	Massey St	D/R 23	\$0	\$0	\$0	\$845,000	\$0	\$845,000
TBD	Immokalee Rd - Livingston to Logan	S/A 22	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000
60016	Intersections - Shoulders	Improvements, Widening 22-24	\$0	\$375,000	\$300,000	\$300,000	\$550,000	\$1,625,000
60226	16th Ave (13th St SW to 23rd St SW) Shoulders	D 20, C 22	\$150,000	\$0	\$1,350,000	\$0	\$0	\$1,500,000
60227	Corkscrew Rd (Lee County line) Shoulders	C 20	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000
60231	Oil Well Rd (Camp Keais Rd to SR 29) Shoulders	D/C 20	\$900,000	\$0	\$0	\$0	\$0	\$900,000
60230	Randall Blvd - 8th St Bridge Opening Impacts	C 20	\$900,000	\$0	\$0	\$0	\$0	\$900,000
TBD	Randall Blvd (Immokalee Rd to Desoto Blvd) Shoulder	D/C 23, C 24	\$0	\$0	\$0	\$100,000	\$1,450,000	\$1,550,000
TBD	Randall Blvd at Everglades Blvd	D/C 21, C 22	\$0	\$625,000	\$350,000	\$0	\$0	\$975,000
TBD	Immokalee Rd at Northbroke Dr/Tarpon Bay Blvd	D/C 21	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000
TBD	Everglades Blvd (Oil Well to Immok Rd) Shoulder	D/C 23	\$0	\$0	\$0	\$1,600,000	\$0	\$1,600,000
60198	Veterans Memorial	R/D 20, C 21	\$3,600,000	\$8,800,000	\$0	\$0	\$0	\$12,400,000
60199	Vanderbilt Beach Rd - US 41 to E of Goodlette	R/D 20, C 22	\$500,000	\$0	\$8,900,000	\$0	\$0	\$9,400,000
60147	Randall/Immokalee Road Intersection	D 19, D/R 20, C 22	\$950,000	\$0	\$8,800,000	\$0	\$0	\$9,750,000
60228	Sidewalks	D/C 20-24	\$1,627,000	\$1,311,000	\$1,997,000	\$2,530,000	\$2,535,000	\$10,000,000
60229	Wilson Blvd - GG Blvd to Immokalee Rd	A 20, D/A 21, C 22	\$2,000,000	\$10,000,000	\$10,000,000	\$0	\$0	\$22,000,000
TBD	16th St NE Bridge	D/C 21	\$0	\$9,030,000	\$0	\$0	\$0	\$9,030,000
60212	New Golden Gate Bridges (11)	D/C 22-24	\$0	\$0	\$15,476,000	\$6,120,000	\$18,000,000	\$39,596,000
60212.1	47th Av NE Bridge	D/C 24	\$0	\$0	\$0	\$0	\$9,000,000	\$9,000,000
	Contingency		\$0	\$0	\$0	\$0	\$0	\$0
St/ttl	Operations Improvements/Programs		\$12,650,000	\$11,700,000	\$15,150,000	\$15,600,000	\$20,750,000	\$75,850,000
60085	TIS Reviews		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000
60109	Planning Consulting		\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
60163	Traffic Studies		\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
	Impact Fee Refunds		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000
	Debt Service Payments		\$13,262,000	\$13,134,000	\$13,131,000	\$13,136,000	\$13,576,000	\$66,239,000
ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECT TOTALS			\$78,587,000	\$177,540,000	\$101,554,000	\$97,081,000	\$86,611,000	\$541,373,000

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
IF - Impact Fees / COA Revenue	\$15,000,000	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$77,000,000
Unfunded Needs	\$0	\$26,000,000	\$0	\$723,000	\$5,545,000	\$32,268,000
GA - Gas Tax Revenue	\$23,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$119,000,000
GR - Grants / Reimbursements	\$2,500,000	\$13,434,000	\$4,928,000	\$0	\$0	\$20,862,000
CF - Available Cash for Future Projects/Payment of Debt Service	\$47,576,000	\$0	\$0	\$0	\$0	\$47,576,000
GF - General Fund 001	\$9,389,000	\$9,556,000	\$9,556,000	\$9,556,000	\$9,556,000	\$47,613,000
Sales Tax	\$9,127,000	\$86,407,000	\$26,973,000	\$31,650,000	\$29,535,000	\$183,692,000
IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees	\$1,381,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,381,000
TR - MSTU General Fund 111 Transfers	\$4,000,000	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	\$18,000,000
RR - Revenue Reduction (less 5% required by law)	\$(1,919,000)	\$(2,025,000)	\$(2,025,000)	\$(2,025,000)	\$(2,025,000)	\$(10,019,000)
REVENUE TOTAL	\$110,054,000	\$177,372,000	\$83,432,000	\$83,904,000	\$86,611,000	\$541,373,000
CUMULATIVE FOR FY22 CAPITAL FUNDING	\$0	\$0	(\$18,122,000)	(\$31,299,000)	(\$31,299,000)	\$0

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

CONSIDERATION VERSION

PARKS & RECREATION FACILITIES PROJECTS								
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	167 Acres – Golden Gate Golf Course		\$84,243,150	\$0	\$0	\$0	\$0	\$84,243,150
	Fund 345 Debt Service (2011/2013 Bonds)		\$3,528,800	\$3,528,800	\$3,528,800	\$3,528,800	\$3,529,700	\$17,644,900
	Fund 346 Debt Service (2013 Bond)		\$0	\$0	\$0	\$0	\$0	\$0
	Fund 346 Debt Service (2019 Loan)		\$7,930,500	\$0	\$0	\$0	\$0	\$7,930,500
	PARKS & RECREATION FACILITIES PROJECT TOTALS		\$95,702,450	\$3,528,800	\$3,528,800	\$3,528,800	\$3,529,700	\$109,818,550

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
IF - Impact Fees / COA Revenue	\$8,657,500	\$8,657,500	\$8,657,500	\$8,657,500	\$8,657,500	\$43,287,500
DIF - Deferred Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest / Misc.	\$112,000	\$112,000	\$112,000	\$112,000	\$112,000	\$560,000
RR - Revenue Reduction <i>(less 5% required by law)</i>	\$0	\$0	\$0	\$0	\$0	\$0
CF - Available Cash for Future Projects/Payment of Debt Service	\$5,687,800	\$0	\$0	\$0	\$0	\$5,687,800
TR - Added Value through Commitments, Leases & Transfers	\$0	\$0	\$0		\$0	\$0
GF - General Fund 001	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$14,457,300	\$8,769,500	\$8,769,500	\$8,769,500	\$8,769,500	\$49,535,300

NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

CONSIDERATION VERSION

STORMWATER MANAGEMENT SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	Countywide Programs, Planning & Maintenance		\$510,000	\$800,000	\$850,000	\$950,000	\$950,000	\$4,060,000
	Infrastructure & Capacity Projects		\$6,903,000	\$31,100,000	\$27,450,000	\$37,450,000	\$23,200,000	\$126,103,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$7,413,000	\$31,900,000	\$28,300,000	\$38,400,000	\$24,150,000	\$130,163,000
	Stormwater Management Operating		\$0	\$0	\$0	\$0	\$0	\$0
	Debt Service / Reserves		\$0	\$0	\$0	\$0	\$0	\$0
	STORMWATER MANAGEMENT SYSTEM TOTAL PROGRAM COSTS		\$7,413,000	\$31,900,000	\$28,300,000	\$38,400,000	\$24,150,000	\$130,163,000

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
GR - Grants / Reimbursements	\$80,000	\$0	\$0	\$0	\$0	\$80,000
GF - New Budget from Fund (310)	\$2,000,000	\$0	\$0	\$0	\$0	\$2,000,000
325 Reserves	(\$700,000)	\$0	\$0	\$0	\$0	(\$700,000)
Unmet Funding Needs	\$0	\$25,859,000	\$22,259,000	\$32,359,000	\$18,109,000	\$98,586,000
CF - Available Cash for Future Projects/Payment of Debt Service	(\$8,000)	\$0	\$0	\$0	\$0	(\$8,000)
RR - Revenue Reduction (<i>less 5% required by law</i>)	(\$3,000)	(\$3,000)	(\$3,000)	(\$3,000)	(\$3,000)	(\$15,000)
IN - Interest Revenue - misc.	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
GF - New Budget from Fund (101)	\$4,694,000	\$4,694,000	\$4,694,000	\$4,694,000	\$4,694,000	\$23,470,000
GF - New Budget from Fund (111)	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000	\$6,500,000
REVENUE TOTAL	\$7,413,000	\$31,900,000	\$28,300,000	\$38,400,000	\$24,150,000	\$130,163,000

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

CONSIDERATION VERSION

POTABLE WATER SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	Debt Service		\$11,447,500	\$11,504,000	\$11,704,500	\$11,510,500	\$11,683,000	\$57,849,500
	Expansion Related Projects		\$0	\$25,000,000	\$0	\$0	\$48,400,000	\$73,400,000
	Replacement & Rehabilitation Projects		\$32,124,400	\$31,985,000	\$29,335,000	\$28,605,000	\$28,535,000	\$150,584,400
	Departmental Capital		\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
	Reserve for Contingencies – Replacement & Rehabilitation Projects		\$3,212,000	\$3,199,000	\$2,934,000	\$2,861,000	\$2,854,000	\$15,060,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$47,578,900	\$72,499,000	\$44,800,500	\$43,820,500	\$92,333,000	\$301,031,900

REVENUE KEY - REVENUE SOURCE			FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
WIF - Water System Development Fees / Impact Fees			\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000
RR - Reserve Reduction (<i>less 5% required by law</i>)			\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds			\$0	\$25,000,000	\$0	\$0	\$48,400,000	\$73,400,000
LOC - Commercial Paper			\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans			\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account			\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
REV - Rate Revenue			\$40,383,900	\$40,288,000	\$37,573,500	\$36,576,500	\$36,672,000	\$191,493,900
REVENUE TOTAL			\$47,578,900	\$72,499,000	\$44,800,500	\$43,820,500	\$92,333,000	\$301,031,900

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is completed.

DATA SOURCES:

- Expansion Related and Replacement & Rehabilitation Projects:
FY 2020 is obtained from the 2020 Proposed Budget.
FY 2021 to FY 2024 are from the FY 2019 Impact Fee Rate Study.
- Department Capital:
FY 2020 is obtained from the 2020 Proposed Budget, split 50/50 between Water and Wastewater.
FY 2021 to FY 2024 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).
- Debt Service:
All years are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
- Reserve for Contingencies -- Replacement and Rehabilitation Projects:

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2020-2024

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
			CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	NOTES	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
LTF - Landfill Tipping Fees	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells. Landfill cells vary in size and disposal capacity.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

CONSIDERATION VERSION

WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
	Debt Service (CAFR)		\$11,447,500	\$11,413,500	\$10,849,500	\$9,053,000	\$9,050,500	\$51,814,000
	Expansion Related Projects		\$0	\$0	\$114,400,000	\$0	\$0	\$114,400,000
	Replacement & Rehabilitation Projects		\$28,340,600	\$30,750,000	\$30,700,000	\$28,675,000	\$29,695,000	\$148,160,600
	Departmental Capital		\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
	Reserve for Contingencies – Replacement & Rehabilitation Projects		\$2,095,000	\$3,075,000	\$3,070,000	\$2,868,000	\$2,970,000	\$14,078,000
	WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECT TOTAL		\$42,678,100	\$46,049,500	\$159,846,500	\$41,440,000	\$42,576,500	\$332,590,600

REVENUE KEY - REVENUE SOURCE			FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	TOTAL
SIF - Wastewater System Development Fees / Impact Fees			\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
RR - Reserve Reduction (<i>less 5% required by law</i>)			\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds			\$0	\$0	\$114,400,000	\$0	\$0	\$114,400,000
SRF - State Revolving Fund Loans			\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper, Additional Senior Lien			\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers			\$795,000	\$811,000	\$827,000	\$844,000	\$861,000	\$4,138,000
REV - Rate Revenue			\$35,283,100	\$38,638,500	\$38,019,500	\$33,996,000	\$35,115,500	\$181,052,600
REVENUE TOTAL			\$42,678,100	\$46,049,500	\$159,846,500	\$41,440,000	\$42,576,500	\$332,590,600

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:- Expansion Related and Replacement & Rehabilitation Projects:

FY 2020 is obtained from the 2020 Proposed Budget.

FY 2021 to FY 2024 are estimated project costs.

- Department Capital:

FY 2020 is obtained from the 2020 Proposed Budget, split 50/50 between Water and Wastewater.

FY 2021 to FY 2024 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).

- Debt Service:

All years are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt Service Requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

- Reserve for Contingencies -- Replacement and Rehabilitation Projects:

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
COST AND REVENUE SUMMARY TABLE
FISCAL YEARS 2020-2024

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

<u>Projects</u>	<u>Revenue Sources</u>	<u>Expenditure</u>	<u>Revenue Amount</u>	<u>Total</u>
ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$77,000,000	
	Unfunded Needs		\$32,268,000	
	GA - Gas Tax Revenue		\$119,000,000	
	GR - Grants / Reimbursements		\$20,862,000	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$47,576,000	
	GF - General Fund (001)		\$47,613,000	
	Supplemental OMB Funding		\$183,692,000	
	IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees		\$5,381,000	
	TR - MSTU General Fund 111 Transfers		\$18,000,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		-\$10,019,000	\$541,373,000
Less Expenditures:		\$541,373,000		\$541,373,000
			Balance	\$0
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees/Impact Fees		\$32,000,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$73,400,000	
	LOC - Commercial Paper 1		\$0	
	SRF - State Revolving Fund Loans		\$0	
	WCA - Water Capital Account		\$4,138,000	
	REV - Rate Revenue		\$191,493,900	\$301,031,900
Less Expenditures:		\$301,031,900		\$301,031,900
			Balance	\$0
WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees/Impact Fees		\$33,000,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$114,400,000	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account, Transfers		\$4,138,000	
	REV - Rate Revenue		\$181,052,600	\$332,590,600
Less Expenditures:		\$332,590,600		\$332,590,600
			Balance	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		\$0
			Balance	\$0
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$43,287,500	
	DIF - Deferred Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	IN - Interest		\$560,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$5,687,800	
	TR - Added Value through Commitments, Leases & Transfers		\$0	
	GF - General Fund (001)		\$0	\$49,535,300
Less Expenditures:		\$25,575,400		\$49,535,300
			Balance	\$23,959,900
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$80,000	
	BP/RESTORE Act		\$2,000,000	
	Additional OMB Funding (unmet funding needs)		-\$700,000	
	TR - Transfer from Naples Park Debt Service		\$98,586,000	
	CF - Available Cash for Future Projects/Payment of Debt Service		-\$8,000	
	IN - Interest Revenue		-\$15,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$250,000	
	GF - General Fund (001)		\$23,470,000	
	GF - MSTU General Fund (111)		\$6,500,000	\$130,163,000
Less Expenditures:		\$130,163,000		\$130,163,000
			Balance	\$0
TOTAL PROJECTS		\$1,330,733,900	TOTAL REVENUE SOURCES	\$1,354,693,800

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2025-2029

CONSIDERATION VERSION

ARTERIAL AND COLLECTOR ROAD PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
	Contingency		\$0	\$0	\$0	\$0	\$0	\$0
Sbttl	Operations Improvements/Programs		\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$75,000,000
Sbttl	Transfers to Other Funds		\$12,500,000	\$12,500,000	\$12,500,000	\$12,500,000	\$12,500,000	\$62,500,000
	Impact Fee Refunds		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000
	Capacity Improvement Projects - All Phases		\$40,710,000	\$40,710,000	\$10,710,000	\$10,710,000	\$10,710,000	\$113,550,000
	Debt Service Payments		\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$73,000,000
	ARTERIAL AND COLLECTOR ROAD PROJECT TOTALS		\$83,060,000	\$83,060,000	\$53,060,000	\$53,060,000	\$53,060,000	\$325,300,000

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
TX - Sales Tax	\$30,000,000	\$30,000,000	\$0	\$0	\$0	\$60,000,000
IF - Impact Fees / COA Revenue	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$77,500,000
GA - Gas Tax Revenue	\$24,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$120,000,000
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
TR - Transfers	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$62,800,000
DC - Developer Contribution Agreements / Advanced Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$83,060,000	\$83,060,000	\$53,060,000	\$53,060,000	\$53,060,000	\$325,300,000

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2025-2029

PARKS AND RECREATION FACILITIES PROJECTS								
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
	35 Acres - Collier Enterprises - Village SRA		\$0	\$0	\$0	\$0	\$0	\$0
	PARKS AND RECREATION FACILITIES PROJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE			FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
IF - Impact Fees / COA Revenue			\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$40,000,000
GR - Grants / Reimbursements			\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)			\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL			\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$8,000,000	\$40,000,000

NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2025-2029

STORMWATER MANAGEMENT SYSTEM PROJECTS							
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
	Stormwater Management System Projects	Continuous	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000	\$25,365,000
	Stormwater Management Operations & Reserves		\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
CRA - Community Redevelopment Area / Municipal Service Taxing Unit	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000
REVENUE TOTAL	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$25,400,000	\$127,000,000

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2025-2029

CONSIDERATION VERSION

POTABLE WATER SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
	Expansion Related Projects		\$0	\$0	\$0	\$0	\$0	\$0
	Replacement & Rehabilitation Projects		\$28,085,000	\$29,085,000	\$27,685,000	\$26,435,000	\$26,335,000	\$137,625,000
	Debt Service		\$12,077,000	\$11,300,000	\$10,481,500	\$10,258,000	\$11,344,500	\$55,461,000
	Departmental Capital		\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,809,000	\$2,909,000	\$2,769,000	\$2,644,000	\$2,634,000	\$13,765,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$43,849,000	\$44,190,000	\$41,849,500	\$40,269,000	\$41,264,500	\$211,422,000

REVENUE KEY - REVENUE SOURCE			FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
WIF - Water System Development Fees			\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000
RR - Revenue Reduction <i>(less 5% required by law)</i>			\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Loan Funds			\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account			\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
REV - Rate Revenue			\$36,571,000	\$36,894,000	\$34,535,500	\$32,937,000	\$33,913,500	\$174,851,000
REVENUE TOTAL			\$43,849,000	\$44,190,000	\$41,849,500	\$40,269,000	\$41,264,500	\$211,422,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2025-2029

CONSIDERATION VERSION

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
			CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT		SCHEDULE NOTES	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
LTF - Landfill Tipping Fees	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2025 - 2029

CONSIDERATION VERSION

WASTEWATER TREATMENT SYSTEM PROJECTS									
		CAPITAL IMPROVEMENT		\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES		FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
	Expansion Related Projects			\$0	\$0	\$0	\$0	\$0	\$0
	Replacement & Rehabilitation Projects			\$29,885,000	\$31,440,000	\$29,930,000	\$29,430,000	\$31,430,000	\$152,115,000
	Departmental Capital			\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
	Debt Service			\$8,767,000	\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$38,910,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects			\$2,989,000	\$3,144,000	\$2,993,000	\$2,943,000	\$3,143,000	\$15,212,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS			\$42,519,000	\$43,470,000	\$41,008,500	\$40,252,500	\$43,558,000	\$210,808,000

REVENUE KEY - REVENUE SOURCE	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
RR - Revenue Reduction (<i>less 5% required by law</i>)	\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper, Additional Senior Lien	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$878,000	\$896,000	\$914,000	\$932,000	\$951,000	\$4,571,000
REV - Rate Revenue	\$35,041,000	\$35,974,000	\$33,494,500	\$32,720,500	\$36,007,000	\$173,237,000
REVENUE TOTAL	\$42,519,000	\$43,470,000	\$41,008,500	\$40,252,500	\$43,558,000	\$210,808,000

NOTE: Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
COST AND REVENUE SUMMARY TABLE
FISCAL YEARS 2025-2029

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

Projects	Revenue Sources	Expenditure	Revenue Amount	Total
ARTERIAL AND COLLECTOR ROAD PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$77,500,000	
	GA - Gas Tax Revenue		\$120,000,000	
	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	TR - Transfers		\$0	
	GF - General Fund (001)		\$62,800,000	
	DC - Developer Contribution Agreements / Advanced		\$0	
	IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)		\$5,000,000	
	TX - Gas Tax		\$60,000,000	\$325,300,000
Less Expenditures:		\$325,300,000		\$325,300,000
			Balance	\$0
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees		\$32,000,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$0	
	SRF - State Revolving Fund Loans		\$0	
	WCA - Water Capital Account		\$4,571,000	
	REV - Rate Revenue		\$174,851,000	\$211,422,000
Less Expenditures:		\$211,422,000		\$211,422,000
			Balance	\$0
WASTEWATER TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees		\$33,000,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$0	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account		\$4,571,000	
	REV - Rate Revenue		\$173,237,000	\$210,808,000
Less Expenditures:		\$210,808,000		\$210,808,000
			Balance	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		\$0
			Balance	\$0
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$40,000,000	
	GR - Grants / Reimbursements		\$0	
	GF - General Fund (001)		\$0	\$40,000,000
Less Expenditures:		\$0		\$0
			Balance	\$40,000,000
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	CRA - Community Redevelopment Area/Municipal Service Taxing		\$0	
	GF - General Fund (001)		\$127,000,000	\$127,000,000
Less Expenditures:		\$127,000,000		\$127,000,000
			Balance	\$0
TOTAL PROJECTS		\$874,530,000	TOTAL REVENUE SOURCES	\$914,530,000